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AD-704 960

MANAGEMENT INFORMATION SYSTEMS

Volume I of II Volumes

A DDC BIBLIOGRAPHY

May 1944 - October 1969

DDC-TAS-70-43-I

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FOREWORD

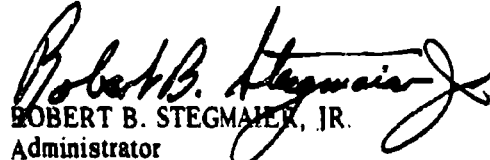
This unclassified and unlimited bibliography is Volume I of a two-volume set on *Management Information Systems*. The 220 entries have been selected from the Defense Documentation Center's data bank January 1953 - January 1970.

Volume II, AD-868 650, contains 218 references with limited distribution.

Included in this volume are Corporate Author-Monitoring Agency, Subject, and Personal Author indexes.

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ROBERT B. STEGMAIER, JR.
Administrator
Defense Documentation Center

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CERAMICS TECHNOLOGY
COMPUTER-AIDED LOGICAL PROCESS
COMPUTERS IN INFORMATION SCIENCES
COST EFFECTIVENESS ANALYSIS
DOPING OF SEMICONDUCTORS
ENCAPSULATION
FIRE EXTINGUISHERS
IGNEOUS ROCKS
KRYPTON
MICROFICHE, MICROFILM, AND RELATED EQUIPMENT
OCEANOGRAPHY
ON-LINE COMPUTER SYSTEMS
OPTICAL OR GRAPHIC INFORMATION PROCESSING
RAPID PHOTOGRAPHIC PROCESSING
SOLAR PANELS
USE OF COMPUTERS IN EDUCATION
USE OF COMPUTERS IN MEDICINE

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-275 828

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

SIMPAC USERS' MANUAL

APR 62

IV

BENNETT, R.P.; COOLEY, P.R.

REPT. NO. TM602 DDC DC

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: •CONTROL SYSTEMS, •DIGITAL COMPUTERS,
•MANAGEMENT ENGINEERING, •SIMULATION, ANALOG SYSTEMS,
CODING, COMPUTER LOGIC, DESIGN, DOCUMENTATION,
INFORMATION RETRIEVAL, OPERATIONS RESEARCH,
PROGRAMMING (COMPUTERS), SCHEDULING, SEQUENTIAL
ANALYSIS, TIME, VOCABULARY

(U)

SIMPAC IS A RESEARCH TOOL FOR SIMULATION. IT OFFERS THE ANALYST AND DESIGNER OF SYSTEMS A MEANS OF MODELING A COMPLEX SYSTEM AND ALLOWS HIM TO STUDY THE DYNAMICS OF A SYSTEM WITHOUT CONCERN OF THE MECHANICS INVOLVED IN USING A DIGITAL COMPUTER FOR SIMULATION. A GREAT DEAL OF RESEARCH AND ANALYSIS IS BEING DONE WHICH INCLUDES THE CONSTRUCTION AND USE OF DIGITAL COMPUTER SIMULATION MODELS. SIMPAC IS DESIGNED TO IMPLEMENT THESE MODELS, NOT TO REPLACE THEM. SIMPAC IS NOT A MODEL. IT IS SOMETHING TO USE IN BUILDING A MODEL. SINCE IT IS IMPOSSIBLE TO PREDICT THE DETAILED CHARACTERISTICS OF MODELS PEOPLE MAY WANT TO BUILD, SIMPAC PROVIDES GREAT FLEXIBILITY, THE PRICE OF WHICH IS PROGRAMMING TIME THE USER MUST SPEND ON IMPLEMENTATION. ONE MAY CONSTRUCT WITH SIMPAC A HIGHLY PARAMETERIZED MODEL WHICH MAY SERVE MANY OR ALL OF HIS DIVERSE SPECIAL PURPOSES. FOR EXAMPLE, A GENERAL QUEUEING MODEL OR A TRAFFIC FLOW MODEL CAN BE BUILT WHICH IS EASILY MANIPULATED BY A NON-PROGRAMMER TO FIT MANY SPECIAL SITUATIONS IN THESE AREAS. (AUTHOR)

(U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PV01

AD-276 065

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

A COMPUTER PROGRAM THAT OPERATES WITH NETWORKS (U)

MAY 62 1V BARTKAMP, H. L. P. R. I.

REPT. NO. SP 798

UNCLASSIFIED REPORT

DESCRIPTORS: *COMPUTER STORAGE DEVICES, *COMPUTERS,
*DATA STORAGE SYSTEMS, *OPERATIONS RESEARCH, ANALYSIS,
COMMUNICATION THEORY, MANAGEMENT ENGINEERING,
PROGRAMMING (COMPUTERS), TESTS (U)

A COMPUTER PROGRAM IS PRESENTED FOR THE STUDY OF
COMPLEX ADAPTIVE SEARCH PROCESSES. THE
COMPLEXITIES OF THIS APPLICATION HAVE REQUIRED THE
DEFINITION OF A FAIRLY GENERAL NETWORK. MUCH OF
THE PROGRAMMING MIGHT LEND ITSELF EQUALLY WELL TO
SUCH NETWORK PROBLEMS AS SCIENTIFIC MANAGEMENT
CONTROL (PERT, SCANS), OR TO SYSTEMATIC STUDY OF
THE BRANCHING CHARACTERISTICS OF COMPUTER PROGRAMS.
THE ADVANCE THAT HAS BEEN MADE IS MOSTLY IN THE
REPRESENTATION OF MORE COMPLEX SPACES. BASIC
MECHANISMS HAVE BEEN DEVELOPED THAT FACILITATE A
VARIETY OF BASIC SEARCH STRATEGIES. HOWEVER, THE
ACTUAL VARIATION OF STRATEGIES IS NOT YET A PROGRAM
FUNCTION; IN THIS RESPECT WE HAVE YET TO SIMULATE
TRULY COMPLEX BEHAVIOR. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-283 040

DEPUTY COMMANDER AEROSPACE SYSTEMS INGLEWOOD CALIF
CONTRACT REQUIREMENT RECORDING, ANALYSIS AND
MANAGEMENT. ORIENTATION AND PRESENTATION MATERIAL (U)

IV

REPT. NO. TDR62 150

CONTRACT: DAD4 4450RD69

MONITOR: DCAS TDR62 150

UNCLASSIFIED REPORT

DESCRIPTORS: •MANAGEMENT ENGINEERING, •PROCUREMENT,
•RESEARCH PROGRAM ADMINISTRATION, AIR FORCE
OPERATIONS, ANALYSIS, AUTOMATION, FEASIBILITY STUDIES,
SCHEDULING, STANDARDIZATION (U)
IDENTIFIERS: CRAM (U)

AN AUTOMATED PROCUREMENT ACTIVITY MANAGEMENT
INFORMATION SYSTEM, 'CONTRACTUAL REQUIREMENTS
RECORDING, ANALYSIS, AND MANAGEMENT' (CRAM),
WAS DESIGNED TO IMPROVE THE PLANNING AND CONTROL OF
PROCUREMENT ACTIVITIES AND TO APPRECIABLY REDUCE THE
WORKLOAD IN THE INDIVIDUAL CONTRACTING OFFICES.
CRAM IS DESIGNED FOR UNIFORM APPLICATION WITHIN ALL
PROCUREMENT AREAS OF THE BALLISTIC SYSTEMS AND
SPACE SYSTEMS DIVISIONS. THE APPLICATION OF
THE CRAM SYSTEM TO THE OPERATION OF THE PROCUREMENT
CYCLE AS IT PERTAINS TO SPECIFIC KINDS OF CONTRACTUAL
INSTRUMENTS IS DESCRIBED. CRAM REPORTING FEATURES
ARE DEFINED AS TO PURPOSE, CONTENT AND USE TOGETHER
WITH ILLUSTRATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-283 330

SMITH ELECTRONICS INC CLEVELAND OHIO

DESIGN AND USE OF MAN-MACHINE SYSTEMS (U)

IV

MILLER, ROBERT B.; CHAPMAN, ROBERT L.

CONTRACT: NONR-135406

UNCLASSIFIED REPORT

DESCRIPTORS: •ARMED FORCES RESEARCH, •AUTOMATION, •HUMAN ENGINEERING, •MILITARY RESEARCH, ARMED FORCES BUDGETS, COMMUNICATION THEORY, COMPUTERS, DECISION MAKING, DEPARTMENT OF DEFENSE, DISPLAY SYSTEMS, DOCUMENTATION, INFORMATION RETRIEVAL, LANGUAGE, MANAGEMENT ENGINEERING, PERSONNEL, RESEARCH PROGRAM ADMINISTRATION, SIMULATION, WEAPONS (U)

PROBLEMS IN BASIC RESEARCH THAT NEED TO BE SOLVED IN ORDER TO MAKE THE MOST EFFECTIVE USE OF MEN IN WEAPON SYSTEMS ARE DISCUSSED. DISCUSSION IS LIMITED TO TOPICS IN WHICH PRESENT RESEARCH SUPPORT APPEARS TO BE INADEQUATE TO MEET THE NEEDS OF THE DEPARTMENT OF DEFENSE IN THE TIME PERIOD 1965-70, AND TO THOSE TOPICS IN WHICH THE DEPARTMENT OF DEFENSE HAS A PECULIAR INTEREST BECAUSE OF ITS GENERALITY. BASIC SCIENTIFIC THEORY ON SYSTEMS CONSIDERED AS WHOLE IS INADEQUATE. SYSTEM SIMULATION TECHNIQUES ARE INADEQUATE. CURRENT TECHNIQUES FOR PERSONNEL OPERATIONS ARE INADEQUATE TO INSURE THAT NEW MAN-MACHINE SYSTEMS WILL BE EFFECTIVELY OPERATED, MAINTAINED AND SUPPORTED. A GENERALIZED MAN-TO-MACHINE CONTROL LANGUAGE IS NEEDED. KNOWLEDGE OF DISPLAYS IS INADEQUATE BOTH IN TERMS OF WHAT INFORMATION TO DISPLAY AND HOW BEST TO DISPLAY IT. METHODS OF INDEXING RESEARCH DATA AND INFORMATION FOR EFFICIENT USE OF MECHANIZED STORAGE AND RETRIEVAL SYSTEMS ARE INADEQUATE. A FOCUS IS NEEDED FOR THE PRESENT WIDELY SCATTERED MANMACHINE SYSTEM RESEARCH ACTIVITIES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AU-400 353

RAND CORP SANTA MONICA CALIF

DESIGN OF A MANAGEMENT INFORMATION SYSTEM (U)

IV

STOLLER, DAVID S.; IVAN HORN, RICHARD

L.:

UNCLASSIFIED REPORT

DESCRIPTORS: *DATA PROCESSING SYSTEMS, *MANAGEMENT
ENGINEERING, CONTROL SYSTEMS, DESERTS, DESIGN,
MAINTENANCE, TEST EQUIPMENT, TEST METHODS (U)

DESIGN OF A MANAGEMENT INFORMATION SYSTEM: (1) METHODS
AND EQUIPMENT IMPROVEMENT, (2) DATA AUGMENTATION, AND
(3) DECISION ORIENTATION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-402 646

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
THE EFFECTS OF ELECTRONIC DATA PROCESSING IN FUTURE
INSTRUCTIONAL SYSTEMS, (U)

IV

REPT. NO. SP.

CONTRACT: REPT. NO. SP1118/001/00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: UNCLASSIFIED REPORT

DESCRIPTORS: *DATA PROCESSING SYSTEMS,
LEARNING, MANAGEMENT ENGINEERING, SIMULATION,
COMPUTERS, SYMPOSIA, INFORMATION RETRIEVAL,
TEACHING MACHINES. (U)

SUMMARIZES COMPUTER DEVELOPMENTS AS FOLLOWS: THE
COMPOSED TEACHING MACHINE: BY BRANCHING STUDENTS
LATERALLY, BACKWARD, AND FORWARD THROUGH SUBJECT
MATERIAL, THE MACHINES DEVELOPS A COURSE OF STUDY
PARTICULARLY SUITED TO THE INDIVIDUAL STUDENT'S
EDUCATIONAL BACKGROUND, LEVEL OF MOTIVATION, AND
APTITUDE. INFORMATION RETRIEVAL SYSTEMS: UP-TO-
DATE INFORMATION IN ANY AREA OF THE ARTS AND SCIENCES
CAN BE PROVIDED BY INFORMATION CENTERS UTILIZING
ABSTRACTING AND TRANSLATING MACHINES, TECHNIQUES OF
RAPID RETRIEVAL AND DISSEMINATION OF DATA.
SIMULATION PROGRAMS: COMPUTER-BASED SIMULATION
PROGRAMS WILL AID ONGOING MANAGEMENT AND INSTRUCTION
ACTIVITIES BY: SUPPLYING PERIODIC ECONOMIC OR POP-
ULATION FORECASTS; HELPING TO BALANCE BUDGETS;
GIVING GUIDANCE IN THE PLANNING OF NEW EDUCATIONAL
FACILITIES; EXPEDITING THE TRAINING AND SELECTION OF
EDUCATORS; FACILITATING CLASSROOM AND VOCATIONAL
INSTRUCTION. THE AUTOMATED CLASSROOM: NEW
TECHNOLOGY FOR PROCESSING EDUCATIONAL DATA AND FOR
ORGANIZING INSTRUCTIONAL MATERIAL IN THE CLASSROOM. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-404 760

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
APPLIED INFORMATION MANAGEMENT SYSTEM USER'S
MANUAL,

(U)

APR 63 26P HELLER, ELMER W.:

REPT. NO. TM1201 000 00

MONITOR: UNCLASSIFIED REPORT

UNCLASSIFIED REPORT

DESCRIPTORS: • INFORMATION RETRIEVAL, • IN DEXES,
ENGINEERING, HANDBOOKS, MANAGEMENT
ENGINEERING.

(U)

IDENTIFIERS: AIMS (APPLIED INFORMATION MANAGE
MENT SYSTEM).

(U)

AIMS (APPLIED INFORMATION MANAGEMENT
SYSTEM), AN INFORMATION STORAGE AND RETRIEVAL
SYSTEM USED BY THE ENGINEERING DEPARTMENT AT
SDC, IS DESCRIBED. AIMS INPUTS ARE DESCRIPTORS
MANUALLY SELECTED FROM THE BODY AND TITLE OF
DOCUMENTS BY A TECHNIQUE NOT REQUIRING PROFESSIONAL
SUBJECT MATTER OR ABSTRACTING SKILL. OUTPUTS ARE
SPECIAL COMPUTER GENERATED INDEXES TO LOCATE INFOR
MATION STORED. THE MOST IMPORTANT IS THE
PERMUTED DESCRIPTOR INDEX. THE MOST COMMON
INFORMATION HANDLED BY AIMS CONSISTS OF SDC
DOCUMENTS, TECHNICAL ARTICLES, MANUALS AND CATALOGS,
CORRESPONDENCE, AND THE STANDARD OFFICE FILES.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-405 614

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO
PLANNING CONCEPTS FOR ASD INFORMATION/DECISION
SYSTEMS, (U)

JAN 63 20P CLARK, F.W.:
MONITOR: ASD PN ASOP63 1

UNCLASSIFIED REPORT

DESCRIPTORS: •MANAGEMENT ENGINEERING, •DECISION
AKIN, CYBERNETICS, COMPUTERS, IN-T
DEVICE, MAGNETIC TAPE DIGITAL COMPUTER,
COMPARISON SYSTEMS, AIR FORCE SYSTEMS
COMMAND, COMPUTERS, DATA PROCESSING SYSTEMS. (U)
IDENTIFIERS: INFORMATION/DECISION SYSTEM. (U)

A FOUNDATION FOR THE PLANNING EFFORT NEEDED TO
FURNISH ASD WITH A MANAGEMENT SYSTEM WHICH TAKES
FULLEST ADVANTAGE OF THE BEST TOOLS AVAILABLE IS
PRESENTED. THIRTEEN CATEGORIES PERTAINING TO THE
ASD DECISION SYSTEM IN THE 1965-75 TIME PERIOD ARE
IDENTIFIED. EACH CATEGORY IS DESCRIBED AND THE
ASD CONCEPT STATED IN TERMS BROAD ENOUGH TO RETAIN
VALIDITY FOR AN EXTENDED PERIOD OF TIME, YET IN
SUFFICIENT DETAIL TO PROVIDE A PRELIMINARY BASIS FOR
DESCRIBING OR MEASURING PROGRESS TOWARD THE
ATTAINMENT OF AN ADEQUATE INFORMATION/DECISION
SYSTEMS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-406 948

OPERATIONS RESEARCH INC SILVER SPRING MD
DESIGN AND DEMONSTRATION OF A MANAGEMENT IN-
FORMATION AND CONTROL SYSTEM FOR THE OFFICE OF
CIVIL DEFENSE.

(U)

63 9P BOWLING, J. PAUL ;
MINTZ, RAYMOND D.; SMITH, T. ARTHUR ;
REPT. NO. TR204
CONTRACT: OCD OS62 286

UNCLASSIFIED REPORT

DESCRIPTORS: • CIVIL DEFENSE SYSTEMS, INTER
COMMUNICATION SY PROCUREMENT, LOGISTICS,
SHELTERS, RADIOACTIVE FALLOUT, MODELS, CONTROL
SYSTEMS, STATISTICAL ANALYSIS, MANAGEMENT
ENGINEERING.

(U)

IDENTIFIERS: PERT NETWORKS, INFORMATION FLOW,
1963.

(U)

THE PURPOSE OF THIS PROJECT IS TO DESIGN AND
DEMONSTRATE THE FEASIBILITY OF A MANAGEMENT
INFORMATION AND CONTROL SYSTEM OF CD FUNCTIONS
UNDER THE JURISDICTION OF THE ASSISTANT SECRETARY
OF DEFENSE (CIVIL DEFENSE). THE SPECIFIED
AREAS OF ANALYTICAL INTEREST ARE THOSE OF COMMUNICA-
TION, PROBLEM DEFINITION, AND POLICY IM PLEMENTATION.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-410 761

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

DATA FOR DYNAMIC COMMAND,

(U)

JUN 63 11P CHRISTIE, LEE S. I

REPT. NO. SP1236

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE SYSTEM
DEVELOPMENT CORPORATION SYMPOSIUM ON THE
"DEVELOPMENT AND MANAGEMENT OF A COMPUTER-CENTERED
DATA BASE," 10-11 JUNE 63, SANTA MONICA,
CALIF.

DESCRIPTORS: (*COMMAND AND CONTROL SYSTEMS,
DATA PROCESSING SYSTEM), (*DATA, COMMAND AND
CONTROL SYSTEMS), OPERATIONS RESEARCH, CONTROL,
COMMUNICATION SYSTEMS, DATA STORAGE SYSTEMS,
AUTOMATION, PROGRAMMING LANGUAGES, LANGUAGE,
LIMITED WAR, WARFARE, DECISION MAKING. (U)
IDENTIFIERS: 1963, DYNAMIC COMMAND, INFORMATION
PROCESSING. (U)

DISCUSSES INFORMATION PROBLEMS THAT ARISE IN
CHANNELS AND SOURCES EXTERNAL TO COMMAND CENTERS AND
BETWEEN CENTERS. REPORTS THAT THESE PROBLEMS HAVE
IMPORTANT IMPLICATIONS FOR FLUIDITY OR FLEXIBILITY
IN THE DATA BASE. ALSO DISCUSSES INFORMATION FLOW
AND THE USE OF THE DATA BASE WITHIN A COMMAND CENTER.
EXAMINES THE NEED FOR FLEXIBLE RESPONSE, THE
TYPICAL PRACTICES OF THE STAFF IN PERFORMING
FLEXIBLY, AND THE IMPLICATIONS OF THESE FACTS FOR
THE ROLE OF AUTOMATED INFORMATION PROCESSING.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-410 972

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
DEVELOPMENT OF AN OPERATIONAL MANAGEMENT SYSTEM.

(U)

APR 63 22P RHINE, RAMON J. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DECISION
MAKING), (*DECISION MAKING, MANAGEMENT ENGINEERING),
(*RESEARCH PROGRAM ADMINISTRATION, DESIGN), (*COMMAND
AND CONTROL SYSTEMS, DESIGN), AUTOMATION, PERSONNEL
MANAGEMENT, WORK FUNCTIONS, DESIGN, TESTS, TRAINING,
ANALYSIS, MILITARY REQUIREMENTS, DATA PROCESSING
SYSTEM, THEORY

(U)

IDENTIFIERS: MANAGEMENT, MANAGEMENT SYSTEMS,
MONITORING, 1963

(U)

DESCRIBES THE DEVELOPMENT OF A MANAGEMENT SYSTEM
FOR THE SYSTEM DEVELOPMENT CORPORATION (SDC),
REPORTS THAT THE SYSTEM EXISTING NOW PROVIDES DATA
BY MANUAL METHODS FOR TOP MANAGEMENT, AND BY
SEMI-AUTOMATIC TECHNIQUES FOR ADMINISTRATIVE,
ACCOUNTING AND PERSONNEL FUNCTIONS. ALSO REPORTS
THAT THE SYSTEM BEING DEVELOPED IS A SINGLE,
INTEGRATED SEMI-AUTOMATIC SYSTEM THAT SUPPORTS TOP-
AND MIDDLE-MANAGEMENT DECISION MAKING AS WELL AS
ADMINISTRATIVE, ACCOUNTING AND PERSONNEL FUNCTIONS.
DISCUSSES PROCESSES WHICH THE MANAGEMENT SYSTEM
WILL BE DESIGNED TO SUPPORT, THE FLOW OF
DEVELOPMENTAL ACTIVITIES INCLUDING ANALYSIS,
REQUIREMENTS, CONSTRAINTS, OPERATIONAL DESIGN,
SUBSYSTEM DESIGN, TEST, TRAINING AND SHAKEDOWN AND
THE TYPE OF SYSTEM EXPECTED TO BE DEVELOPED.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-419 018

AEROSPACE MEDICAL RESEARCH LABS WRIGHT-PATTERSON AFB
OHIO

A METHODOLOGICAL APPROACH TO THE ANALYSIS AND
AUTOMATIC HANDLING OF TASK INFORMATION FOR SYSTEMS IN
THE CONCEPTUAL PHASE, (U)

AUG 63 120P REED, LAWRENCE E.;
FOLEY, JOHN P.; GRAHAM, RALPH S.;
HILGEMAN, JONATHAN B.;

PROJ: 1710

TASK: 171006

MONITOR: AMRL

TDR63 78

UNCLASSIFIED REPORT

DESCRIPTORS: (•JOB ANALYSIS, SCIENTIFIC RE
SEARCH), DATA PROCESSING SYSTEMS, HUMAN ENGI
NEERING, BEHAVIOR, CODING, TRAINING PERSONNEL,
INFORMATION RETRIEVAL. (U)

IDENTIFIERS: HUMAN FACTORS, SYSTEMS ANALYSIS,
1963. (U)

ADEQUATE CONSIDERATION OF THE HUMAN SKILLS RE
QUIRED BY FUTURE SYSTEMS HAS LONG BEEN NEGLECTED IN
THE CONCEPTUAL PHASE OF MAN-MACHINE SYSTEM
DEVELOPMENT. THIS NEGLECT IN PART HAS BEEN DUE TO
LACK OF A UNIFORM AND WORKABLE METHOD FOR GATHERING,
PROCESSING, AND USING EARLY HUMAN FACTORS
INFORMATION FOR IMPROVING THE DESIGN AND DEVELOPMENT
OF SYSTEMS. THE METHODOLOGICAL APPROACH PRESENTED
IN THIS REPORT WAS PREDICATED ON THIS NEED. THIS
REPORT PRESENTS A TECHNIQUE FOR ANALYZING AND
PROCESSING TASK AND TASK REQUIREMENTS DATA GENERATED
DURING THE CONCEPTUAL PHASE OF SYSTEM DEVELOPMENT.
THE TECHNIQUE INCLUDES: (A) A CATEGORY SYSTEM
FOR ORGANIZING, CLASSIFYING, AND CODING TASK
INFORMATION; (B) A TASK ANALYSIS FORMAT FOR
RECORDING AND CODING TASK DESCRIPTIONS AND TASK
REQUIREMENTS; AND (C) COMPUTER UPDATE AND
RETRIEVAL PROGRAMS. TASK REQUIREMENT DATA
APPEARING IN DOCUMENTS RESULTING FROM THE AIR
FORCE STUDY REQUIREMENT PROGRAM ARE ANALYZED
AND USED FOR TESTING THE TECHNIQUE ON AN ACTUAL
PERSONNEL TRAINING PROBLEM. THE TEST PROGRAM
INDICATES THAT THE TECHNIQUE CAN BE USED TO ASSIST
HUMAN FACTORS SPECIALISTS TO ISOLATE AND PROCESS TASK
AND TASK REQUIREMENTS ASSOCIATED WITH ADVANCED
SYSTEMS FOR MAKING PERSONNEL, TRAINING, AND TRAINING
EQUIPMENT RECOMMENDATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-420 212

RAND CORP SANTA MONICA CALIF

INFORMATION SYSTEMS FOR CITY MANAGEMENT, (U)

OCT 63 11P HEARLE, EDWARD F. R. ;

REPT. NO. P2803

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, URBAN AREAS),

(*DATA PROCESSING SYSTEMS, MANAGEMENT ENGINEERING).

DECISION MAKING, INFORMATION RETRIEVAL (U)

IDENTIFIERS: 1963 (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-422 457

MITRE CORP BEDFORD MASS

FIRST CONGRESS ON THE INFORMATION SYSTEM SCIENCES.

SESSION 17. THE FLEXIBILITY OF AUTOMATED INFORMATION SYSTEMS. (U)

OCT 63 31P

REPT. NO. 5517

CONTRACT: AF33 600 39852

PROJ: 704

MONITOR: ESD TUR63 474 17

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (DATA PROCESSING SYSTEMS, INFORMATION RETRIEVAL), COMMAND, CONTROL SYSTEMS, HUMAN ENGINEERING, MANAGEMENT ENGINEERING, CONTROL SYSTEMS, COMPUTERS, AUTOMATION (U)
IDENTIFIERS: 1963 (U)

THE COMMON CHARACTERISTICS OF ALL TYPES OF INFORMATION SYSTEMS ARE DETAILED, WITH SYSTEMS DEFINED AS HAVING PROCEDURAL RESTRICTIONS AND UNDERLINESS. THE DISCRETE PARAMETER TYPES OF SIMPLE MAN-MADE SYSTEMS ARE COMPARED WITH BIOLOGICAL SYSTEMS TO SHOW THE FLEXIBILITY OF THE APPARENTLY CONTINUOUS PARAMETER ASPECT OF THE LATTER. HIERARCHIC ARRANGEMENTS ARE EXPLAINED AND THEIR USES IN FORMAL SYSTEMS DESCRIBED. THE FLEXIBILITY AS WELL AS THE INEFFICIENCY AND LIMITATIONS OF INFORMAL SYSTEMS ARE SHOWN, AND THE POSSIBLE REDUCTION IN FLEXIBILITY WHEN FORMAL SYSTEMS TAKE OVER IS DISCUSSED. THE GOALS AND REQUIREMENTS OF SYSTEMS DESIGN ACTIVITY ARE COVERED, TAKING INTO ACCOUNT THE USE OF AUTOMATION AND MECHANIZATION TO ATTAIN THE GOALS. ADVANTAGES AND DISADVANTAGES OF THINKING MACHINES ARE DISCUSSED, AND THEIR USE FOR MILITARY COMMAND AND CONTROL PURPOSES IS EXAMINED IN RELATION TO OPERATIONAL EFFECTIVENESS. THE NEED FOR FLEXIBLE MILITARY SYSTEMS IS DESCRIBED, BUT THESE SYSTEMS MUST BE BALANCED BY STANDARDIZED PROCEDURES TO MAINTAIN FULL CONTROL. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AU-425 856

GEORGE WASHINGTON UNIV WASHINGTON D C
ON THE GENERAL STRUCTURE OF AN ABSTRACT SHIP, (U)
NOV 63 79P HAMILTON, J. E. ;

NOBLE, STEDMAN B. ;

REPT. NO. T-145

CONTRACT: NONR-761(03), NONR-761(05)

PROJ: NR-345-107, NR-047-001

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (DATA PROCESSING SYSTEMS, SHIPS), (JOB
ANALYSIS, SHIPS), ANALYSIS, CLASSIFICATION, MANAGEMENT
ENGINEERING, DECISION MAKING, SHIP AUXILIARY
EQUIPMENT, INFORMATION RETRIEVAL (U)
IDENTIFIERS: 1963, MISSION, INFORMATION SYSTEMS (U)

THIS PAPER IS CONCERNED WITH PROBLEMS OF
MANAGEMENT, SPECIFICALLY THE PROBLEM OF ORGANIZING
EXTENSIVE BODIES OF DATA IN SUCH A WAY THAT THE DATA
ARE RESPONSIVE TO CHANGES IN DECISIONS. THE SUBJECT
MATTER IS THE SHIP AND ANALYSIS DEVELOPS RELATIONS
BETWEEN THE EQUIPMENTS ABOARD SHIP IN ORDER TO
DETERMINE AN INHERENT CLASSIFICATION OF THE JOBS THAT
A SHIP CAN DO. ASSOCIATED WITH EACH JOB IS A
SEQUENCE OF EQUIPMENTS AND IT IS POSSIBLE TO OBTAIN
INFORMATION ON THESE EQUIPMENTS THAT IS ORGANIZED
ACCORDING TO THE JOBS OF A SHIP. THESE JOBS CAN BE
ASSEMBLED AND REASSEMBLED INTO DIFFERENT MISSIONS BY
TACTICAL ANALYSIS. THE APPENDICES PROVIDE A
PRELIMINARY ANALYSIS FOR AN ABSTRACT (I.E.,
COMPOSITE) SHIP WHICH CAN BE USED TO ORGANIZE A
FLEXIBLE RETRIEVAL SYSTEM FOR THE NAVY THAT IS
RESPONSIVE TO CHANGES IN TACTICAL ANALYSIS. THE
PAPER IS A PILOT STUDY IN THE PROBLEM-AREA OF
INFORMATION SYSTEMS THAT WOULD BE RESPONSIVE TO
COMMAND CONTROL DECISIONS. SOME SUGGESTIONS ARE
GIVEN FOR EXTENSION OF THE ANALYSIS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-426 985

MITRE CORP BEDFORD MASS

FIRST CONGRESS ON THE INFORMATION SYSTEM SCIENCES
SESSION 7. INFORMATION SYSTEM SIMULATION AND
MODELLING TECHNIQUES. (U)

DEC 63 108P

REPT. NO. 557

CONTRACT: AF33 600 39852

PROJ: 704

MONITOR: ESD TUR63 474 7

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, SIM
ULATION), (*BEHAVIOR, SIMULATION),
COMPUTERS, GROUP DYNAMICS, LANGUAGE, SOCIAL
COMMUNICATION, AUTOMATIC, DECISION MAKING,
THEORY, MILITARY ORGANIZATIONS, JOB ANALYSIS,
MANAGEMENT ENGINEERING. (U)

IDENTIFIERS: LEVIATHAN PROJECT, DUAL-MODE SIMU
LATION, 1963, INFORMATION PROCESSING. (U)

THE LEVIATHAN PROJECT IS A UNIQUE, EXPERIMENTAL
APPROACH TO STUDYING THE STRUCTURE AND SOCIAL
DYNAMICS OF LARGE-SCALE ORGANIZATIONS SUCH AS A
MILITARY COMMAND, A GOVERNMENT BUREAU, OR AN IN
DUSTRIAL ORGANIZATION. IT INVOLVES CREATION OF AN
ARTIFICIAL SOCIETY IN A COMPUTERIZED LABORATORY,
COMBINING LIVE SUBJECTS WHO ENACT MANAGERIAL ROLES
WITH ARTIFICIAL AGENTS WHICH IMPLEMENT POLICY
DECISIONS. THREE SIMULATIONS ARE DISCUSSED IN THIS
PAPER: AN AUTOMATIC-MODE SIMULATION, A LIVE
SIMULATION, AND A DUAL-MODE SIMULATION. AUTOMATIC
MODE SIMULATION (JUNE 1961) DEMONSTRATED THE
FEASIBILITY OF OPERATING A COMPLEX TECHNOLOGICAL
SYSTEM ON A LARGE MODERN COMPUTER. THE LIVE
SIMULATION (APRIL 1962) DEMONSTRATED THE
PRACTICALITY OF OPERATING THIS SYSTEM IN A
COMPUTERIZED LABORATORY WITH LIVE EXECUTIVES. THE
LIVE SUBJECTS WERE REQUIRED TO COMMUNICATE THROUGH
THE COMPUTER WHICH RECORDED ALL INTERACTIONS. THE
DUAL-MODE SIMULATION WOULD COMBINE LIVE SUBJECTS AND
ARTIFICIAL AGENTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-428 839

MITRE CORP BEDFORD MASS

FIRST CONGRESS ON THE INFORMATION SYSTEM SCIENCES

SESSION 15 INFORMATION SYSTEM PERFORMANCE

EVALUATION.

(U)

JAN 64 59P

REPT. NO. SS15

CONTRACT: AF33 600 39852

PROJ: 7040

MONITOR: ESD TDR63 474 15

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SYMPOSIA, INFORMATION RETRIEVAL),
(*DATA PROCESSING SYSTEM, OPERATION), EFFECTIVENESS,
TRAINING, DESIGN, DECISION MAKING, SIMULATION,
ANALYSIS, PERSONNEL, CONTROL, PERFORMANCE TESTS,
VISIBILITY, OPERATOR (PERSONNEL), HUMAN ENGINEERING,
JOB ANALYSIS

(U)

IDENTIFIERS: 1964, NORMATIVE EXERCISE, SIMCON, CORE
PROBLEM, SYSTEM DESIGN, SAGE

(U)

THIS SESSION DEALS WITH THE PROBLEMS OF EVALUATING
THE PERFORMANCE OF A MILITARY INFORMATION PROCESSING
SYSTEM BETWEEN THE TIME IT IS DEvised AND THE TIME
WHEN IT IS OBSOLETEd. THE SESSION IS TRIPARTITE,
DEALING WITH (1) THE CRITERIA INVOLVED IN JUDGING
PERFORMANCE EFFECTIVENESS OF SYSTEMS, (2) THE USE
OF THE ADCS TRAINING PROGRAM IN SYSTEM
PERFORMANCE EVALUATION, AND (3) THE APPLICATION
OF NORMATIVE EXERCISING AS A SYSTEM DESIGN AID.
IN CONSIDERING THE PROBLEM OF ESTABLISHING CRITERIA
BY WHICH TO EVALUATE SYSTEMS, THE THREE VARIABLES
(ENVIRONMENTAL CONDITIONS, THE STATE OF THE SYSTEM,
AND A KNOWLEDGE OF THE PROBABLE CONSEQUENCES OF
ALTERNATIVE ACTION) WHICH IMPORTANTLY INFLUENCE
PERFORMANCE ARE DESCRIBED. THE EFFICACY OF
NORMATIVE EXERCISING AS AN ANALYTICAL AID OF
DESIGN PURPOSES IN THE EARLY STAGES OF A PARTICULAR
SYSTEM'S EVALUATION IS INDICATED, PARTICULARLY WHEN
CRITERIA ARE LACKING WITH WHICH TO TEST OUTCOMES OF
SYSTEM FUNCTION, WHEN THERE ARE MANY CONFLICTING
VIEWS AS TO HOW TO ARRIVE AT A PROBLEM SOLUTION.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-429 242

HARRY DIAMOND LABS WASHINGTON D C
THE MEDIUM-SIZED INFORMATION SERVICE; ITS AUTOMATION
FOR RETRIEVAL, (U)

DEC 63 26P ALTMANN, BERTHOLD ;
PROJ: G1200
MONITOR: HDL TR1192

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DOCUMENTATION, AUTOMATION), DATA,
THEORY, MANAGEMENT ENGINEERING, INFORMATION RETRIEVAL,
COMPUTER, DATA PROCESSING SYSTEMS, SUBJECT INDEXING,
CATALOGS, REPORTS (U)
IDENTIFIERS: CONCEPT INDEXING, EAM EQUIPMENT, 1963,
ABC SYSTEM, CLIENTELE, INFORMATION SYSTEM,
SPECIALIZATION, MAN-MACHINE, FLOW CHART (U)

A THEORETICAL DISCUSSION OF THE BASIC ELEMENTS
INFLUENCING THE ORGANIZATION AND OPERATION OF A
DOCUMENTATION OFFICE (THE TYPE OF INFORMATION, THE
CLIENTELE, THE PERSONNEL, AND THE TOOLS AND
MACHINES) IS FOLLOWED BY A CASE STUDY. THE
OPERATIONS OF A MEDIUM-SIZE REFERENCE SERVICE WERE
AUTOMATED FIRST BY UTILIZING EAM EQUIPMENT; LATER,
A COMPUTER. IN THE PROCESS, THE COORDINATE
INDEXING SYSTEM WAS REPLACED BY THE ABC
(APPROACHBY-CONCEPT) SYSTEM, PERMITTING
MANUAL AS WELL AS AUTOMATIC RETRIEVAL. POSSIBLE
APPLICATION OF THIS SYSTEM TO LARGE DOCUMENTATION
CENTERS IS EXPLAINED. (AUTHOR) (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-430 142

DOCUMENTATION INC BETHESDA MD
MANAGEMENT CONTROL DATA SYSTEM OF THE U.S. AIR FORCE
OFFICE OF SCIENTIFIC RESEARCH. (U)

DESCRIPTIVE NOTE: FINAL TECHNICAL REPT.

NOV 63 48P

CONTRACT: AF49 638 1212

MONITOR: AFOSR 64 0109

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DATA
PROCESSING SYSTEMS), (*DATA PROCESSING SYSTEMS;
MANAGEMENT ENGINEERING), INFORMATION RETRIEVAL, DATA
STORAGE SYSTEM, PROCUREMENT, PERSONNEL MANAGEMENT,
CONTROL (U)

IDENTIFIERS: ABSTRACT FILE, HISTORICAL FILE,
PRODUCTIVITY FILE, PURCHASE ACTION FILE, PROPOSAL
FILE, 1963 (U)

MCDS IS A CENTRALIZED, AUTOMATED TOTAL SYSTEM
DESIGNED TO FULFILL THE INFORMATION REQUIREMENTS OF
THE U. S. AIR FORCE OFFICE OF SCIENTIFIC
RESEARCH IN THE MANAGEMENT OF BASIC RESEARCH.
THE SCOPE OF THE SYSTEM COVERS: (1) CONTROL OF
ALL PROPOSAL DATA FROM THE TIME OF RECEIPT UNTIL A
SPECIFIC ACTION COMPLETES THE PROPOSAL PHASE; (2)
THE PROCUREMENT CYCLE WHICH IS INITIATED UPON THE
ACCEPTANCE OF A PROPOSAL; (3) THE STORAGE OF ALL
OBLIGATED PURCHASE ACTIONS IN A HISTORICAL FILE
FROM BEGINNING TO COMPLETION OF A RESEARCH EFFORT;
AND (4) A COMPLETED FILE WHICH IS A REPOSITORY
FOR ALL COMPLETED RESEARCH INVESTIGATIONS WHICH ARE
NOT A FUNCTION OF THE ACTIVE PROGRAM. THE PURPOSE
OF THIS RESEARCH WAS TO ANALYZE THE NEEDS OF
AFOSR'S MANAGEMENT PERSONNEL AND TO DEVELOP A
COMPREHENSIVE SYSTEM WHICH WOULD FURNISH THE OUTPUT
REQUIREMENTS OF AFOSR MANAGEMENT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-430 598

OFFICE OF AEROSPACE RESEARCH ARLINGTON VA
THREAT OF COMMUNIST TECHNOLOGY: PROPOSALS FOR FREE
WORLD COOPERATION IN R&D AND INFORMATION TRANSFER, (U)

SEP 63 63P ALBUM, HYMAN H. :

HOSHOVSKY, ALEXANDER G. :

MONITOR: GAR 18

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMMUNISTS, SCIENTIFIC RESEARCH),
(*COMMUNISTS, FOREIGN POLICY), (*RESEARCH PROGRAM
ADMINISTRATION, INFORMATION RETRIEVAL), POLITICAL
SCIENCE, ECONOMICS, EDUCATION, SCIENTIFIC PERSONNEL,
CONTROL, DATA, ECONOMIC WARFARE, COMMUNISM,
DOCUMENTATION, DATA PROCESSING SYSTEMS, COSTS, DATA
STORAGE SYSTEMS (U)

IDENTIFIERS: FREE WORLD COOPERATION, WORLD ALLIANCE,
1963, COMMUNIST IDEOLOGY, FREE WORLD, INFORMATION
SYSTEM, U. S. INFORMATION, THREAT SYSTEM, USSR (U)

THE SCIENTIFIC AND TECHNOLOGICAL TRENDS IN
COMMUNIST COUNTRIES CANNOT HELP BUT EVOKE A SENSE OF
URGENCY. IF THESE TRENDS CONTINUE, AND IF THE
COMMUNIST IDEOLOGY REMAINS UNCHANGED, THE FREE
WORLD MUST EXPECT SERIOUS ECONOMIC AND POLITICAL
DIFFICULTIES IN THE FUTURE. TO HELP PREVENT THIS,
WE HAVE FOCUSED OUR ATTENTION ON WHAT WE CONSIDER TO
BE THE MAJOR PROBLEM AREAS - INEFFECTIVE R&D
COOPERATION OF THE FREE WORLD AND ITS FRAGMENTED,
CUMBERSOME INFORMATION SYSTEM. AS A PARTIAL
SOLUTION WE PROPOSE: A FREE WORLD ALLIANCE FOR
SCIENCE AND TECHNOLOGY; GREATER EMPHASIS ON EDUCATION
OF SCIENTISTS IN COUNTRIES EMERGING ON THE WORLD
SCENE; REDUCTION OF THE ONE WAY FLOW OF TECHNICAL
INFORMATION TO COMMUNIST COUNTRIES (OR, INVERSELY,
INCREASE OUR INTAKE); A U. S. INFORMATION SYSTEM
WHICH WOULD MORE EFFECTIVELY USE GOVERNMENT AND
PRIVATE RESOURCES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-431 933

DEPARTMENT OF LABOR WASHINGTON D C
MANPOWER AND AUTOMATION RESEARCH SPONSORED BY THE
OFFICE OF MANPOWER, AUTOMATION AND TRAINING JULY 1,
1962 - JUNE 30, 1963. (U)
AUG 63 50P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LABOR, AUTOMATION), (*LABOR,
SCIENTIFIC RESEARCH), (*SCIENTIFIC RESEARCH, LABOR),
(*AUTOMATION, SCIENTIFIC RESEARCH), MOBILIZATION,
PERSONNEL MANAGEMENT, POPULATION, INDUSTRIES,
INFORMATION RETRIEVAL (U)
IDENTIFIERS: MANPOWER REQUIREMENTS, 1962-1963 (U)

MANPOWER AND AUTOMATION RESEARCH SPONSORED BY THE OFFICE
OF MANPOWER, AUTOMATION AND TRAINING,

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-432 098

STANFORD RESEARCH INST MENLO PARK CALIF
RESEARCH ON COMPUTER AUGMENTED INFORMATION
MANAGEMENT, (U)

NOV 63 59P BOURNE, CHARLES P. ;

CONTRACT: AF19 628 2914

PROJ: 4506

MONITOR: ESD TDR64 177

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•INFORMATION RETRIEVAL, MANAGEMENT
ENGINEERING), (•MANAGEMENT ENGINEERING, COMPUTERS),
OPERATION, INPUT-OUTPUT DEVICES, MAGNETIC TAPE (U)
IDENTIFIERS: AN/FSQ-32, MACHINE FILE, INFORMATION-
MANAGEMENT SUBSYSTEM (U)

THE WORK REPORTED WAS CONCERNED PRIMARILY WITH THE
DESIGN AND DEVELOPMENT OF AN INFORMATION MANAGEMENT
SUBSYSTEM THAT WOULD OPERATE IN THE ENVIRONMENT OF A
COOPERATIVE MAN/COMPUTER SYSTEM FOR THE PRODUCTION OF
OPERATING COMPUTER PROGRAMS. AN EXPERIMENTAL SYSTEM
WAS DEVELOPED WHICH UTILIZED THE AN/FSQ-32 COMPUTER
IN A TIME-SHARING MODE OF OPERATION, AS WELL AS A
CATHODE RAY TUBE DISPLAY AND ASSOCIATED INPUT-OUTPUT
FACILITIES FOR REAL-TIME MACHINE USE BY A PROGRAMMER.
A NUMBER OF SYMBOL MANIPULATION TECHNIQUES (E.G.,
INSERT, DELETE) DEVELOPED ON THE ARPA PROJECT
WERE USED FOR THE EDITING AND MANIPULATION OF TEXT
AND PROGRAMMING MATERIAL ON THE DISPLAY. METHODS OF
FILE ORGANIZATION WERE STUDIED AND ESTABLISHED FOR
THE MACHINE FILE. PROCEDURES WERE ESTABLISHED FOR
OBTAINING AND USING MACHINE-READABLE RECORDS FROM ALL
OF THE PROJECT RECORDS (E.G., MEMOS,
CORRESPONDENCE, BIBLIOGRAPHIES, REPORTS) GENERATED
BY THE USER GROUP, TO SERVE AS THE BASIS FOR AN
EXPERIMENTAL MACHINE FILE. THIS MACHINE FILE WAS
ESTABLISHED, ALONG WITH APPROPRIATE FILE SEARCH
ROUTINES, TO PERMIT THE READING OF THE NATURAL TEXT
OF THE FILE MATERIAL. STUDIES WERE MADE OF
METHODS TO AUTOMATICALLY DETERMINE ALTERNATE SEARCH
PRESCRIPTIONS, AND DISPLAY THESE TO THE INQUIROR.
PROCEDURES WERE ESTABLISHED TO PERFORM SOME COPY
EDITING OF THE TEXT MATERIAL (E.G., CHECK FOR
CORRECT SPELLING). (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-434 029

RAND CORP SANTA MONICA CALIF
COMMUNICATIONS, SEMANTICS, AND INFORMATION SYSTEMS, (U)

MAR 64 18P HILL, L. S. ;
REPT. NO. P2862

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMMUNICATION THEORY, LANGUAGE,
(*LANGUAGE, SOCIAL COMMUNICATION), (*VOICE
COMMUNICATION SYSTEM, STIMULATION), (*BIONICS,
COMMUNICATION THEORY), SOCIAL COMMUNICATION,
PSYCHOMETRICS, THEORY, SPEECH, MANAGEMENT ENGINEERING,
SCHEDULING, CONTROL SYSTEMS (U)
IDENTIFIERS: INFORMATION SYSTEMS, SEMANTICS, 1964,
PERT, SPEECH COMMUNICATION (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-443 751

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
EXPERIENCE WITH EDP SUPPORT OF INDIVIDUALS' FILE
MAINTENANCE. (U)

JUL 64 SP WALLACE, EVERETT M. ;
REPT. NO. SP 1646

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CATALOGS, MAINTENANCE), (*MANAGEMENT
ENGINEERING, CATALOGS), (*INFORMATION RETRIEVAL,
MANAGEMENT ENGINEERING), MAINTENANCE PERSONNEL,
DOCUMENTATION, SUBJECT INDEXING, DATA STORAGE
SYSTEMS (U)

IDENTIFIERS: EDP SUPPORT, FILE MAINTENANCE, IBM-
1401 (U)

DURING THE PAST TWO YEARS SDC HAS BEEN
EXPERIMENTING WITH VARIOUS TOOLS FOR SUPPLYING
INDIVIDUALS WITH IMPROVED MEANS OF MAINTAINING
PERSONAL FILES AND SPECIAL RECORDS. WE HAVE
PREVIOUSLY REPORTED ON A PROTOTYPE SYSTEM AT THE 1963
ADI MEETING. THIS PAPER REPORTS THE EXPERIENCE OF
USERS OF THE SYSTEM AND ON MODIFICATIONS AND
IMPROVEMENTS ADOPTED IN THE LIGHT OF THAT EXPERIENCE.
(AUTHOR) (U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-447 561

AMMUNITION PROCUREMENT AND SUPPLY AGENCY
MANAGERS GUIDE TO STANDARD TECHNIQUE FOR REPORTING
INFORMATION ON VALUE ENGINEERING,

(U)

AUG 64 IV SMITH, HARVEY A. ;
HILL, CLIFFORD C. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, REPORTS),
COMMUNICATION SYSTEMS, DATA, ANALYSIS, CONTROL,
RELIABILITY, QUALITY CONTROL

(U)

IDENTIFIERS: VALUE ENGINEERING, STRIVE SYSTEM,
REPORTING

(U)

THE PURPOSE OF THIS MANAGER'S GUIDE IS TO
INTRODUCE THE STRIVE SYSTEM DESIGN TO
MANAGEMENT AND VALUE ENGINEERING PERSONNEL.
THE GUIDE IS PRESENTED CLEARLY AND CONCISELY TO
FAMILIARIZE THESE PERSONNEL WITH THE SYSTEM AND TO
GIVE THEM A BASIS FOR COMMUNICATING WITH THEIR
TECHNICAL STAFFS WHEN IMPLEMENTING THE STRIVE
SYSTEM. THE GUIDE GIVES A BRIEF SYNOPSIS OF
PROBLEMS IN EXISTING VE PROCEDURES, DESCRIBES THE
ESSENTIAL CHARACTERISTICS OF A WORKABLE SOLUTION, AND
PROVIDES A DETAILED EXPLANATION OF THE STRIVE
SYSTEM AS THE PROPOSED SOLUTION. (AUTHOR)

(U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-454 269

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY
BETHESDA MD
THE BIOMEDICAL INFORMATION COMPLEX VIEWED AS A
SYSTEM, (U)

64 13P ORR, RICHARD H. ;
ABDIAN, GREGORY ; BOURNE, CHARLES P. ; COYL, EDWIN
B. ; LEEDS, ALICE A. ;
CONTRACT: PH43 62 167 , GMD9166

UNCLASSIFIED REPORT
REPRINT FROM FEDERATION PROCEEDINGS, 23:5, PP. 1133-
1145, SEP-OCT 64. (COPIES NOT SUPPLIED BY DDC)
SUPPLEMENTARY NOTE:

DESCRIPTORS: (*INFORMATION RETRIEVAL, MEDICAL
RESEARCH), (*DATA PROCESSING SYSTEMS, BIOLOGY),
(*BIOLOGY, DOCUMENTATION), THEORY, COSTS, ANALYSIS,
QUALITY CONTROL, MANPOWER STUDIES, SIMULATION, DATA
STORAGE SYSTEMS (U)
IDENTIFIERS: DOCUMENT PROCESSING (U)

TO AID IN VISUALIZING AND UNDERSTANDING THE
HETEROGENEOUS AGGREGATE OF INTERDEPENDENT OPERATIONS,
ACTIVITIES, AND SERVICES THAT HANDLE THE INFORMATION
GENERATED BY, AND USED IN, BIOMEDICAL RESEARCH, THIS
COMPLEX WAS ANALYZED AS A SYSTEM FROM A VIEWPOINT OF
THE FUNCTIONS IT PERFORMS. THE RESULT WAS A
QUALITATIVE MODEL WITH THE FOLLOWING MAJOR FUNCTIONAL
COMPONENTS: (1) GENERATION AND USE, (2) ORAL
COMMUNICATION, (3) RECORDING AND DISTRIBUTION,
(4) DOCUMENT PROCESSING, (5) INFORMATION
PROCESSING, AND (6) CONTROL. BETWEEN GENERATION
AND USE, THE FLOW OF INFORMATION THROUGH COMPONENTS
(2), (3), (4), AND (5) DEPENDS UPON
PARALLEL AND SEQUENTIAL CHAINS OF PROCESSING
OPERATIONS. THE OPERATIONS OF EACH COMPONENT
DEPEND, IN GENERAL, UPON THE PRIOR ACCOMPLISHMENT OF
THE OPERATIONS OF THE PRECEDING COMPONENT. THE
CAPACITY OF A GIVEN COMPONENT IS LIMITED TO THAT OF
ITS SLOWEST OPERATION EXCEPT WHERE ALTERNATIVE PATHS
EXIST. THE COSTS OF OPERATING THIS COMPLEX ARE MET
BY GOVERNMENT, PRIVATE FOUNDATIONS, INDUSTRY,
ACADEMIC INSTITUTIONS, AND USER FEES FOR SERVICES
(SUCH AS SUBSCRIPTION FEES). THE PRESENT TREND
IS TOWARD INCREASING DEPENDENCE ON GOVERNMENT
SUPPORT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD4458 585

AIR FORCE SYSTEMS COMMAND WASHINGTON D C
WEAPON SYSTEM EFFECTIVENESS INDUSTRY ADVISORY
COMMITTEE (WSEIAC). DATA COLLECTION + MANAGEMENT
REPORTS. (U)

DESCRIPTIVE NOTE: FINAL REPT. OF TASK GROUP 3.

JAN 65 259P

REPT. NO. AFSC-TR-65-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*WEAPON SYSTEMS, EFFECTIVENESS),
(*MANAGEMENT ENGINEERING, AIR FORCE SYSTEMS COMMAND),
DATA, COLLECTING METHODS, INFORMATION RETRIEVAL, DATA
PROCESSING SYSTEMS, REPORTS (U)
IDENTIFIERS: REPORTING (U)

THIS REPORT DISCUSSES THE ACQUISITION, CONTROL,
REPORTING, SUMMARIZING AND RETRIEVING OF DATA AS IT
PERTAINS TO SYSTEM EFFECTIVENESS. SECTION II
PROVIDES A SUMMARY OF THE MAIN BODY OF THE REPORT,
WHICH COMPRISES SECTIONS III, IV AND V.
SECTION III COVERS DATA ACQUISITION AND DATA
ELEMENTS IN DETAIL. SECTION IV DISCUSSES A
SYSTEM EFFECTIVENESS INFORMATION CENTRAL
(SEIC) AND A SYSTEM INFORMATION BANK (SIB)
FOR SYSTEM PROJECT OFFICE USE, AND IN ADDITION
PRESENTS SOME OF THE PROBLEMS ON INFORMATION
RETRIEVAL. SECTION V DISCUSSES MANAGEMENT
SUMMARIES, AND GIVES MANY EXAMPLES AND SUGGESTIONS
ON HOW TO PRESENT SUMMARIZED DATA. NUMEROUS
CONCLUSIONS AND RECOMMENDATIONS RESULTING FROM THE
EFFORTS OF TASK GROUP III ARE INCORPORATED AS
SECTIONS VI AND VII. THE THREE APPENDICES TO
THE REPORT CONTAIN, RESPECTIVELY, SAMPLES OF
REPORTING FORMS; A SURVEY OF LANGUAGES AND SYSTEMS
FOR INFORMATION RETRIEVAL; AND EXAMPLES OF PROPOSED
SYSTEM EFFECTIVENESS MATRICES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-462 334

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB

PERSONNEL INVENTORY (A REPORT ON AN AUTOMATED INDEX
TO MANPOWER). (U)

DESCRIPTIVE NOTE: TECHNICAL MEMO.,
JAN 65 22P DICKMANN, ROBERT A. ;

REPT. NO. TG-647

CONTRACT: N0W62 0604C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PERSONNEL MANAGEMENT, DATA PROCESSING
SYSTEMS), MANPOWER STUDIES, INDEXES, AUTOMATION,
INFORMATION RETRIEVAL, PROGRAMMING (COMPUTERS), DATA
STORAGE SYSTEMS, DIGITAL COMPUTERS, EFFECTIVENESS (U)
IDENTIFIERS: ALGONE (U)

THE PURPOSE AND PROBLEMS OF AN AUTOMATED INDEX TO
MANPOWER ARE PRESENTED, AND FOUR CRITERIA FOR THE
ELIMINATION OF THESE PROBLEMS ARE LISTED. AN
EXPLANATION OF ALGONE, APL'S PERSONNEL INVENTORY
PROGRAM, IS GIVEN OUTLINING IN SOME DETAIL THE
APPLICATION OF ALGONE TO THE SEARCH, PRINT, AND
EDIT FUNCTIONS OF APL'S INFORMATION STORAGE
PACKAGE. FINALLY, ALGONE'S PRESENT VALUE AND
FUTURE POTENTIALITIES ARE GIVEN. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PVO1

AD-472 209

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
REPORT ON INITIAL PLANNING FOR GENISYS (GENERALIZED
INFORMATION SYSTEM). (U)

DESCRIPTIVE NOTE: TECHNICAL DOCUMENTARY REPT. 18 JAN-30
JUN 65.

JUL 65 136P

REPT. NO. TM(L)-2335/000/U1

CONTRACT: AF19 628 3418

PROJ: AF2801

TASK: 280108

MONITOR: ESD TR-65-463

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
COMPUTERS), (*COMPUTERS, DATA PROCESSING
SYSTEMS), (*MANAGEMENT ENGINEERING, DATA
PROCESSING SYSTEMS), (*MANAGEMENT ENGINEERING,
DATA PROCESSING SYSTEMS), AUTOMATION, SYSTEMS
ENGINEERING, PROGRAMMING LANGUAGES, COSTS,
EFFECTIVENESS, FEASIBILITY STUDIES, DATA
STORAGE SYSTEMS, COMMAND + CONTROL SYSTEMS,
COMPUTER LOGIC, INFORMATION RETRIEVAL, INPUT-
OUTPUT DEVICES, DISPLAY SYSTEMS, MANAGEMENT
PLANNING (U)

IDENTIFIERS: GENISYS (GENERALIZED INFORMATION
SYSTEM), USER-ORIENTED SYSTEMS, EXECUTIVE
SYSTEMS (U)

GENISYS IS A PROTOTYPE, CURRENTLY IN THE INITIAL
STAGES OF PLANNING, FOR A FAMILY OF GENERALIZED,
USER-ORIENTED, DATA MANAGEMENT SYSTEMS TO BE
DEVELOPED FOR THE U. S. AIR FORCE. GENISYS
WILL COMBINE THE TECHNOLOGY EXISTING IN TIME-SHARING
SYSTEMS, USER-ORIENTED SYSTEMS, AND DATA MANAGEMENT
SYSTEMS TO PROVIDE ON-LINE COMPUTER SUPPORT TO A
VARIETY OF NONPROGRAMMER USERS, AND TO PERMIT
ONGOING, IN-FIELD SYSTEM AND GENISYS. A SECTION ON
DESIGN REQUIREMENTS DISCUSSES DESIGN OBJECTIVES AND
SPECIFIES REQUIREMENTS FOR THE BASIC EXECUTIVE, THE
EXTENDED EXECUTIVE, AND THE FUNCTIONS PROVIDED THE
GENISYS USER. SUBSEQUENT SECTIONS COVER HARDWARE
REQUIREMENTS, COMPARISONS WITH OTHER SYSTEMS, AND
TECHNIQUES FOR IMPLEMENTATION AND EVALUATION OF
GENISYS. A LIST OF REFERENCES IS INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-481 646 S/2

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
INFORMATION ANALYSIS USING CHART VERSIONS 3 AND
5.

(U)

APR 66 104P
REPT. NO. LMSC-669737

UNCLASSIFIED REPORT

DESCRIPTORS: (• INFORMATION RETRIEVAL,
• PROGRAMMING (COMPUTERS)), DATA PROCESSING
SYSTEMS, PATTERN RECOGNITION, INFORMATION THEORY,
DATA STORAGE SYSTEMS, CLASSIFICATION, DECISION
MAKING, STANDARDS, ANALYSIS, SELECTION,
RELIABILITY, STATISTICAL ANALYSIS, GRAPHICS,
MANAGEMENT PLANNING

(U)

IDENTIFIERS: INFORMATION ANALYSIS

(U)

A GENERAL INFORMATION CONCEPT IS PRESENTED TO
DEMONSTRATE THE SIMILARITY OF PROBLEMS IN THE
MANAGEMENT OF BOTH SCIENTIFIC AND TECHNICAL
INFORMATION. THE USE OF COMPUTER AND GRAPHIC
DISPLAY FOR PROCESSING AND FORMATTING ENGINEERING
DESIGN, MANUFACTURING, FINANCIAL, TECHNICAL AND
SCIENTIFIC DATA IS CONSIDERED IN DEPTH. NO
PROGRAMMING EXPERIENCE IS ASSUMED ALTHOUGH ACCESS TO
COMPUTER FACILITIES USUAL IN AEROSPACE FACILITIES IS
REQUIRED TO IMPLEMENT THE NINE TYPES OF CHART PAPER
INCLUDING LOG-LOG, PROBABILITY, WEIBULL TOGETHER
WITH OTHER FORMATS USEFUL IN INFORMATION ANALYSIS FOR
PATTERN RECOGNITION OR FREQUENCY DISTRIBUTIONS.
THE PROGRAMS ARE GENERAL IN NATURE AND ARE NOT
KEYED TO ANY SYSTEM IN PRODUCING OUTPUT INFORMATION
FOR CONTROL, TRACKING OR DIAGNOSIS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-600 184

ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS
AN INTRODUCTION TO PERT COST, (U)

MAR 64 130P MOOTY, FRANK T. ;

MO4, 184: ESD TDR64 208

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MANAGEMENT CONTROL SYSTEMS, COSTS),
MANAGEMENT PLANNING, DATA PROCESSING SYSTEMS,
SCHEDULING, STATISTICAL DATA, TIME STUDIES (U)

IDENTIFIERS: PERT COST SYSTEM (U)

A GENERAL INTRODUCTION TO PERT COST, AN
INNOVATION IN THE FIELD OF MANAGEMENT. THIS
TECHNIQUE EMPLOYS A NETWORKING, STATISTICAL AND
SCHEDULING METHODOLOGY USING ADVANCED DATA PROCESSING
PROCEDURES. THE PERT COST TECHNIQUE IS BASED ON
THE PRINCIPLE THAT PLANNING MUST BE DEVELOPED IN A
MANNER THAT FACILITATES ITS USE AS A MANAGEMENT
CONTROL TOOL AND A MANAGEMENT CONTROL SYSTEM MUST USE
AS ITS BASE THE PLANNING THAT GOVERNS THE PROGRAM.
ACCORDINGLY, PERT COST CAN BE USED IN BOTH THE
PLANNING AND CONTROL FUNCTIONS OF MANAGEMENT.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-601 488

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB

INFORMATION RETRIEVAL IN THE PERSONNEL DEPARTMENT. A
SURVEY OF METHODS USED IN SCIENTIFIC AND ENGINEERING
ORGANIZATIONS. (U)

APR 64 31P DICKMANN, ROBERT A. ;
ELLIOTT, OLINDA ; HUBBARD, LESLIE A. ;
REPT. NO. TGS74
CONTRACT: N0W62 D6G4C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH GEORGE
WASHINGTON UNIV., WASHINGTON, D. C.

DESCRIPTORS: (*INFORMATION RETRIEVAL, PERSONNEL
MANAGEMENT), (PERSONNEL MANAGEMENT, INFORMATION
RETRIEVAL), (*PERSONNEL, RECORDS), (*RECORDS,
MAINTAINABILITY), AUTOMATION, PUBLIC OPINION, DATA
PROCESSING SYSTEMS (U)

THE PRESENT STUDY WAS UNDERTAKEN TO DETERMINE THE
APPROACH SCIENTIFIC AND ENGINEERING ORGANIZATIONS ARE
TAKING TO AUTOMATE PERSONNEL RECORDS, THE NATURE OF
SUCH AUTOMATED SYSTEMS, THE DEGREE OF SUCCESS WHICH
HAS BEEN ENCOUNTERED, AND THE EFFORTS MADE TOWARD
DEVELOPING A STRUCTURE OF TECHNICAL SKILLS.
QUESTIONNAIRES ON AUTOMATION AND INFORMATION
RETRIEVAL IN THE PERSONNEL DEPARTMENT WERE SENT TO
256 ORGANIZATIONS. ONE HUNDRED SEVEN FIRMS
RESPONDED, 95 WITH COMPLETED QUESTIONNAIRES. AFTER
THE RESULTS WERE SUMMARIZED, THE FOLLOWING
CONCLUSIONS WERE DRAWN: (1) AN ACTUAL NEED
FOR AUTOMATION OF PERSONNEL RECORDS WAS FIRST SEEN AS
A FIRM APPROACHED 500 PROFESSIONAL EMPLOYEES.
(2) AS CONTINUED GROWTH OCCURRED (UP TO 1000
PROFESSIONAL EMPLOYEES), THE NEED FOR AUTOMATION
WAS CONFIRMED. HOWEVER, AUTOMATION ACTUALLY WAS
EMPLOYED AS A MEANS FOR SIMPLIFYING CLERICAL TASKS
FOR EACH AREA OF PERSONNEL SEPARATELY, AND THESE
AUTOMATED SUBSYSTEMS WERE NOT INTEGRATED INTO ONE
WORKING RECORD SYSTEM. (3) AFTER CLERICAL
PROBLEMS OF PREPARING STATISTICAL REPORTS WERE
SOLVED, IN THE 100 TO 1500 GROUP, FIRMS BEGAN TO LOAD
MORE DETAILED INFORMATION ABOUT EACH EMPLOYEE INTO
THE SYSTEM SO THAT COMPREHENSIVE LISTS OF EMPLOYEES
COULD BE PROVIDED. (4) IN THE 1500 TO 2000
GROUP, ALL OF THE RESPONDING FIRMS RELIED ON
AUTOMATED RECORDS TO SOME EXTENT, EVEN THOUGH THE
SAMPLE OF FIRMS IN THIS CATEGORY WAS VERY SMALL.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-602 222

PENNSYLVANIA UNIV PHILADELPHIA MOORE SCHOOL OF
ELECTRICAL ENGINEERING

ON A STUDY OF INFORMATION STORAGE AND RETRIEVAL. (U)

DESCRIPTIVE NOTE: INTERIM TECHNICAL REPT.,

MAY 64 22P SHARP, D. S. MCNULTY, J. E.

REPT. NO. 65 01
CONTRACT: NONR551 40

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•INFORMATION RETRIEVAL, INVENTORY
CONTROL), (•INVENTORY CONTROL, INFORMATION RETRIEVAL),
(•OPERATIONS RESEARCH, MANAGEMENT PLANNING), NAVAL
RESEARCH, MANAGEMENT ENGINEERING, HUMAN ENGINEERING,
REAL TIME, LOGISTICS, STOCK LEVEL CONTROL, DATA
STORAGE SYSTEMS, INPUT-OUTPUT DEVICES, ECONOMICS,
PERSONNEL MANAGEMENT, SYSTEMS ENGINEERING (U)

A PRELIMINARY SYSTEM STUDY WAS CARRIED OUT AT ASO
(AVIATION SUPPLY OFFICE) TO DETERMINE THE
INFORMATION NEEDS OF PERSONNEL AND THE ACTIONS
REQUIRING THE USE OF THE FILE FOR INPUT/OUTPUT. A
STUDY OF EQUIPMENT CHARACTERISTICS IS IN PROCESS AND
VARIOUS EQUIPMENT HAS BEEN ANALYZED FOR SUITABILITY.
EXPERIMENTAL EQUIPMENT CONFIGURATIONS ARE BEING
CONSIDERED AS WELL AS COMMERCIALY AVAILABLE
MACHINES. EXPERIMENTS IN MAN-MACHINE RELATIONSHIPS
CANNOT TAKE PLACE UNTIL SUITABLE VISUAL DISPLAY
EQUIPMENT IS AVAILABLE, BUT A RESEARCH DESIGN HAS
BEEN FORMULATED AND EXPERIMENTS CAN BEGIN AS SOON AS
THE EQUIPMENT IS INSTALLED. A FURTHER STUDY OF THE
DETAILED INFORMATION NEEDS IN A REAL-TIME ENVIRONMENT
IS PLANNED WITH FURTHER STUDY IN THE CATALOG,
STOCK CONTROL AND TECHNICAL SECTIONS OF ASO.
AS VISUAL DISPLAY EQUIPMENT IS OBTAINED FOR RESEARCH
PURPOSES, THE PLANNED SERIES OF EXPERIMENTS WILL BE
CONDUCTED, GRADUALLY ADVANCING TO MORE ADVANCED
CONCEPTS INVOLVING CHANGES TO THE COMPUTER EXECUTIVE
PROGRAM IN ORDER TO PROVIDE INFORMATION IN A FORM
WHICH IS MORE COMPATIBLE WITH REAL-TIME OPERATIONS.
{AUTHOR} (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-602 226

PENNSYLVANIA UNIV PHILADELPHIA MOORE SCHOOL OF
ELECTRICAL ENGINEERING

AUTOMATIC CLASSIFICATION FOR THE DDC MATHEMATICS
COLLECTION: A STATISTICAL OPTIMIZATION OF SEARCH TIME
IN AN INFORMATION RETRIEVAL SYSTEM: THE USE OF REAL
TIME COMPUTERS FOR INVENTORY CONTROL. (U)

DESCRIPTIVE NOTE: RESEARCH PROGRESS REPT.,
MAY 64 3P LEIFER, P. L. ; ZIMMERMAN, B. ;

SHARP, D. D. , JR. ;

REPT. NO. MSEE-64 21

CONTRACT: NONR55, 40

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ABSTRACTS, INFORMATION RETRIEVAL),
(*DOCUMENTATION, MATHEMATICS), (*INFORMATION
RETRIEVAL, SEARCH THEORY), (*INVENTORY CONTROL, DATA
PROCESSING SYSTEMS), REAL TIME, COMPUTERS, SUBJECT
INDEXING, VOCABULARY, COMPUTER STORAGE DEVICES,
MATHEMATICAL MODELS, OPTIMIZATION (U)

IDENTIFIERS: MAGNACARD SYSTEM, MATHEMATICS (U)
DESCRIPTORS (U)

THIS REPORT CONSISTS OF ABSTRACTS OF THE THREE
REPORTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-602 827

DAVID TAYLOR MODEL BASIN WASHINGTON D C

MODERN MISER, A CRITICAL PATH AND RESOURCE ALLOCATION
METHOD FOR THE UNIVAC LARC. (U)

DESCRIPTIVE NOTE: RESEARCH AND DEVELOPMENT REPT.,

MAY 64 192P CAMARA, ABEL WILLIAM I

GOLDBERG, NATALIE TARTER ;

REPT. NO. DTM8-1796

PROJ: S R003 07 01

TASK: 10362

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL OPERATIONS, OPERATIONS
RESEARCH), (*OPERATIONS RESEARCH, NAVAL OPERATIONS),
(*DIGITAL COMPUTERS, SCHEDULING), PROGRAMMING
(COMPUTERS), MATHEMATICAL MODELS, MANAGEMENT PLANNING,
MANAGEMENT ENGINEERING, LINEAR PROGRAMMING (U)
IDENTIFIERS: MODERN MISER SYSTEM, UNIVAC LARC,
SHIPYARD PROJECT, CRITICAL PATH METHOD (U)

THE MODERN MISER SYSTEM IS A PLANNING AND
SCHEDULING TOOL DEVELOPED ON THE REMINGTON-RAND
UNIVAC LARC COMPUTER. IT IS DESIGNED TO ASSIST
MANAGEMENT IN COMPREHENDING THE LOGICAL RESTRICTIONS
ON A SERIES OF ACTIVITIES PERTAINING TO ONE OR MANY
PROJECTS. THE SYSTEM INCLUDES A BASIC CRITICAL
PATH METHOD, A COST OPTIMIZATION ROUTINE, A FLOAT
ALLOCATION PROCEDURE, THE FACILITY FOR MANPOWER
LEVELING, AND THE RESOURCE PLANNING AND SCHEDULING
METHOD. VARIOUS ALGORITHMS USED IN THE DEVELOPMENT
OF THE SYSTEM ARE DISCUSSED. THE MACHINE PROCEDURE
USED TO ADAPT THESE FORMULAS TO THE LARC ARE SHOWN.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-604 277

ROME AIR DEVELOPMENT CENTER GRIFFISS AFB N Y

A USER-ORIENTED INFORMATION PROCESSING SYSTEM, (U)

JUN 64 64P DION, FREDERIC A. ;

PROJ: 4594

TASK: 459404

MONITOR: RAJC , TDR64 193

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, MANAGEMENT ENGINEERING), (*MANAGEMENT ENGINEERING, DECISION MAKING), MANAGEMENT CONTROL SYSTEMS, PROGRAMMING (COMPUTERS), COMPUTER OPERATORS, CYBERNETICS, PUBLIC RELATIONS, REAL TIME, COMMAND AND CONTROL SYSTEMS, MILITARY INTELLIGENCE (U)

THE REPORT DESCRIBES THE EQUIPMENT CONFIGURATION AND PROGRAMMING OF AN INFORMATION PROCESSING (IP) SYSTEM WHICH ENABLES MANAGERS TO DIRECT THEIR OPERATIONAL ORGANIZATIONS MORE EFFECTIVELY. THE COMPLETE SYSTEM CONSISTS OF THE MANAGER-USER, HIS EXPERIENCE AND KNOWLEDGE, THE ORGANIZATION'S PERSONNEL, THE DATA PROCESSING EQUIPMENT, ITS PROGRAMS AND LANGUAGE AND THE INTERACTIONS WITH THE OUTSIDE WORLD. A DATA PROCESSING SYSTEM IS PROVIDED FOR THE MANAGER'S USE WHICH ENABLES HIM, WITHOUT PRIOR PROGRAMMING EXPERIENCE, TO RAPIDLY AND EASILY MANIPULATE AND TO OPERATE ON THE INFORMATION THAT HE USES IN HIS DECISION MAKING PROCESSES. A SYSTEM IMPLEMENTATION IS DESCRIBED WHICH PROVIDES THE MANAGER-USER WITH A POWERFUL, FAST, CONVENIENT INFORMATION PROCESSING TOOL. THE USER ORIENTATION IS ACHIEVED BY PROGRAMMING THE SYSTEM SO THAT THE USER CAN OPERATE THE DATA PROCESSING PORTION OF THE SYSTEM IN A REAL-TIME, ON-LINE FASHION. THE SYSTEM PERMITS THE USER TO MANIPULATE AND TO OPERATE ON, IN ANY LEGITIMATE WAY, THE INFORMATION NECESSARY FOR HIS DECISION MAKING. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-604 681

MASSACHUSETTS INST OF TECH CAMBRIDGE

THE OPS-1 MANUAL,

(U)

MAY 64

66P

GREENBERGER, MARTIN I

REPT. NO. MAC-TR-G

CONTRACT: NONR4102 01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON PROJECT MAC. PREPARED IN
COOPERATION WITH THE M. I. T. 15.599 SEMINAR.

DESCRIPTORS: (*PROGRAMMING LANGUAGES, DATA PROCESSING
SYSTEMS), (*PROGRAMMING (COMPUTERS), DESIGN),

OPERATORS (MATHEMATICS), COMPUTERS, SYMPOSIA

(U)

IDENTIFIERS: MAC PROJECT, OPS-1 SYSTEM, TIME SHARING
(COMPUTERS)

(U)

THE RECENT ATTAINMENT AND CONTINUING DEVELOPMENT OF
PERSONALLY ACCESSIBLE COMPUTER FACILITIES HAVE OPENED
ANOTHER CHAPTER IN THE USE OF MACHINES BY MAN. A
NUMBER OF CURRENT RESEARCH EFFORTS, INCLUDING
PROJECT MAC AT M.I.T., ARE DESIGNING NEW
CONCEPTUAL SYSTEMS TO ADAPT THE EMERGING TECHNOLOGY
TO A WIDE RANGE OF HUMAN ACTIVITY. ACTIVITIES
RELATING TO MANAGEMENT ARE THE CONCERN OF A TRIAL
SYSTEM AT PROJECT MAC CALLED OPS-1. THE
OPS-1 SYSTEM AND THE EXPERIMENT THAT LAUNCHED IT
ARE DESCRIBED IN THE MANUAL. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-605 890

RAND CORP SANTA MONICA CALIF

A TECHNIQUE FOR IMPROVING THE MANAGEMENT OF A
COMPUTER INSTALLATION, (U)

SEP 64 74P PATRICK, R. L. ;

REPT. NO. RM-4232-PR

CONTRACT: AF49 638 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPUTERS, MILITARY FACILITIES),
(*DATA PROCESSING SYSTEMS, MANAGEMENT ENGINEERING),
(*MANAGEMENT CONTROL SYSTEMS, DATA PROCESSING
SYSTEMS), COMPUTERS, LIBRARIES, MANAGEMENT PLANNING,
COMPUTER PERSONNEL, COMPUTER OPERATORS, JOB ANALYSIS,
PSYCHOMETRICS, PERFORMANCE (HUMAN), BUDGETS, REPORTS,
DATA (U)

AN INFORMAL TECHNIQUE USED BY COMPUTER INSTALLATION
MANAGERS FOR THE CONTROL OF THE WORK FORCE AND FOR
GATHERING DATA SUITABLE FOR REPORTS TO HIGHER
MANAGEMENT IS DESCRIBED AND DOCUMENTED. THE
PURPOSE OF THE REPORT IS TO MAKE WIDELY AVAILABLE TO
INSTALLATION MANAGERS AND TO HIGHER MANAGERMENTS AND
COMMAND ELEMENTS THE DETAILS OF THE USE OF THE
TECHNIQUE, WHICH HAS EVOLVED AMONG THE MORE
EXPERIENCED MANAGERS. FIVE BENEFITS OF THE SYSTEM
ARE DESCRIBED: BETTER PERFORMANCE BY THE
INSTALLATION MANAGER; A FRAMEWORK FOR MEASURING SUCH
PERFORMANCE; A BASE OF DATA FOR PLANNING PURPOSES; AN
ABSTRACT MEASURE OF WORKLOADS FOR COMPUTER DESIGNERS;
AND A CODIFIED REPORTING SCHEME SO THAT GOVERNMENT
MAY LEARN FROM INDUSTRY, AND CONVERSELY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-606 181

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SDC DOCUMENTS APPLICABLE TO STATE AND LOCAL
GOVERNMENT PROBLEMS. (U)

DESCRIPTIVE NOTE: SCIENTIFIC REPT.,
AUG 64 10P ISAACS, HERBERT M. ;
REPT. NO. TM-2025

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SYSTEMS ENGINEERING, BIBLIOGRAPHIES),
(*INDEXES, OPERATIONS RESEARCH), (*BIBLIOGRAPHIES,
SYSTEMS ENGINEERING), (*SOCIOLOGY, SYSTEMS
ENGINEERING), DOCUMENTATION, UNITED STATES GOVERNMENT,
MEDICAL RESEARCH, PROGRAMMING (COMPUTERS), EDUCATION,
TRAINING, URBAN PLANNING, SIMULATION, INFORMATION
RETRIEVAL, LAW, COMPUTERS, MANAGEMENT ENGINEERING (U)

THIS DOCUMENT CONTAINS A SELECTIVE LIST OF SDC
PUBLICATIONS AVAILABLE TO EXTERNAL REQUESTERS. THE
DOCUMENTS ON THIS LIST WERE SELECTED ON THE BASIS OF
THEIR GENERAL OR SPECIFIC APPLICABILITY TO CURRENT
PROBLEMS OF STATE AND LOCAL GOVERNMENT. WORK OF A
MORE BASIC RESEARCH NATURE HAS BEEN OMITTED. THE
LIST IS ORGANIZED BY SUBSTANTIVE CATEGORIES AND
ALPHABETICALLY BY AUTHOR WITHIN EACH CATEGORY. THE
CATEGORIES INCLUDE: THE ADMINISTRATION OF JUSTICE,
BIO-MEDICAL SYSTEMS, COMPUTER PROGRAM SYSTEMS, THE
DEVELOPMENT AND MANAGEMENT OF COMPUTER-BASED SYSTEMS,
EDUCATION AND TRAINING, INFORMATION RETRIEVAL,
SIMULATION IN EXPERIMENTATION, AND URBAN INFORMATION
SYSTEMS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-606 732

FEDERAL FIRE COUNCIL WASHINGTON D C
FEDERAL FIRE COUNCIL MINUTES OF MEETING, NOVEMBER 6,
1963: STAFF PROGRAM MANAGEMENT AS RELATED TO FIRE
SAFETY. THE COUNCIL'S FIRE SAFETY REFERENCE
LIBRARY. (U)

44 32P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: LEGIBILITY OF THIS DOCUMENT IS IN PART
UNSATISFACTORY. REPRODUCTION HAS BEEN MADE FROM BEST
AVAILABLE COPY.

DESCRIPTORS: (*SYMPOSIA, FIRE SAFETY), (*FIRE SAFETY,
INFORMATION RETRIEVAL), (*LIBRARIES, FIRE SAFETY),
(*MANAGEMENT ENGINEERING, FIRE SAFETY), PERSONNEL
RESEARCH PROGRAM ADMINISTRATION, ARTICLES, REPORTS,
SUBJECT INDEXING, STORAGE (U)

THE PURPOSE OF THE MEETING WAS TO DISCUSS PROGRAM
MANAGEMENT AND THE COUNCIL'S LIBRARY OPERATIONS.
MR. TOM CRESWELL, SAFETY OFFICER FOR THE
FEDERAL AVIATION AGENCY, POINTED OUT THE
PROBLEMS THAT EXIST WITH STAFF PROGRAMS--AND WAYS OF
OVERCOMING THESE WEAK POINTS. HE SAID THAT MOST
STAFF GROUPS PROBABLY GREW FROM A LACK OF KNOWLEDGE,
OR A LACK OF PRACTICAL APPLICATION OF GOOD RECOGNIZED
THEORIES, ON THE PART OF LINE MANAGEMENT OR THE
OPERATING PEOPLE. STAFF GROUPS ARE RESPONSIBLE FOR
BUILDING A SYSTEM IN WHICH OPERATING PERSONNEL MUST,
AND CAN, WORK EFFICIENTLY AND ECONOMICALLY IN
ACCOMPLISHING THE ORGANIZATION'S MISSION. THE
BASIC OBJECTIVE FOR THE FIRE SAFETY FUNCTION WAS
STATED AS EVALUATING THE SYSTEM IN WHICH OPERATING
PEOPLE ARE WORKING TO IDENTIFY WEAKNESSES IN THE
SYSTEM AND TO CALL THESE WEAKNESSES TO THE ATTENTION
OF THE APPROPRIATE FUNCTIONAL MANAGER SO THAT HE
CAN TAKE CORRECTIVE ACTION. DICK BRIGHT,
ASSISTANT STAFF DIRECTOR FEDERAL FIRE
COUNCIL EXPLAINED THE NEED, HISTORY, AND PRESENT
OPERATIONS OF THE COUNCIL'S FIRE SAFETY REFERENCE
LIBRARY. HE POINTED OUT THAT FIRE SAFETY FEATURES
ARE SCATTERED THROUGHOUT A MOUNTAIN OF REPORTS AND
ARTICLES, AND, THEREFORE, THERE IS NO FIRE SAFETY
REFERENCE LIBRARY CAPABLE OF PERFORMING ALL THE VITAL
INDEXING, ABSTRACTING, AND RETRIEVAL SERVICES NEEDED.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-608 342

PENNSYLVANIA UNIV PHILADELPHIA MOORE SCHOOL OF
ELECTRICAL ENGINEERING
THE USE OF REAL TIME COMPUTERS FOR INVENTORY
CONTROL.

(U)

DESCRIPTIVE NOTE: INTERIM TECHNICAL REPT.,

NOV 64 78P SHARP, DONALD D., JR.;

REPT. NO. MSEE-64-21

CONTRACT: NONR551 40

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*INVENTORY CONTROL, DIGITAL COMPUTERS),
(*DATA PROCESSING SYSTEMS, REAL TIME), (*DIGITAL
COMPUTERS, INVENTORY CONTROL), AUTOMATA, MANAGEMENT
ENGINEERING, INFORMATION RETRIEVAL, SYSTEMS
ENGINEERING, LOGISTICS, INDUSTRIES, FEASIBILITY
STUDIES

(U)

A REAL-TIME SYSTEM PROVIDES IMMEDIATE ACCESS TO
INFORMATION STORED IN THE COMPUTER BY OPERATING
PERSONNEL THROUGHOUT THE ORGANIZATION. THE PURPOSE
OF THIS THESIS IS TO ANALYZE EXISTING AND PROPOSED
REAL-TIME INVENTORY CONTROL SYSTEMS IN ORDER TO
DETERMINE THE ADVANTAGES AND DISADVANTAGES OF THIS
NEW MANAGEMENT TECHNIQUE. ALTHOUGH REAL-TIME
INVENTORY CONTROL SYSTEMS ARE STILL IN THE
DEVELOPMENTAL STAGE, AN EXAMINATION OF THE
IMPLICATIONS OF THESE REAL-TIME SYSTEMS SHOULD
PROVIDE AN INSIGHT INTO THE POSSIBILITIES FOR WIDE
SPREAD USE OF REAL-TIME SYSTEMS FOR INVENTORY CONTROL
AND FOR OTHER BUSINESS APPLICATIONS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-606 344

GENERAL ELECTRIC CO SANTA BARBARA CALIF TECHNICAL MILITARY
PLANNING OPERATION
THE APPLICATION AND IMPLEMENTATION OF DEACON TYPE
SYSTEMS. (U)

DESCRIPTIVE NOTE: SEMI-ANNUAL TECHNICAL REPT. FOR APR-
SEP 64.

OCT 64 94P THOMPSON, FREDERICK B. ;
REPT. NO. RM64TMP-11
CONTRACT: NONR4101 00
PROJ: NR011 05 02

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MILITARY INTELLIGENCE, INFORMATION
RETRIEVAL), (*COMMAND AND CONTROL SYSTEM INFORMATION
RETRIEVAL), (*INFORMATION RETRIEVAL, COMMAND AND
CONTROL SYSTEMS), LANGUAGE, DECISION MAKING,
COMPUTERS, ARTIFICIAL INTELLIGENCE, DATA PROCESSING
SYSTEMS (U)

IDENTIFIERS: DEACON (DIRECT ENGLISH ACCESS AND
CONTROL), SAGE, SYNTAX, LIST PROCESSING, BAYES
THEOREM, SEMANTICS, INFORMATION SYSTEMS (U)

DEACON (DIRECT ENGLISH ACCESS AND CONTROL) IS
AN ADVANCED DIRECT-ACCESS TYPE OF MANAGEMENT
INFORMATION SYSTEM DERIVING FROM A PROJECT CONCERNING
DEVELOPMENT OF TECHNIQUES FOR COMPUTING WITH A
COMPUTER IN ESSENTIALLY UNCONSTRAINED ENGLISH.
DEACON-TYPE SYSTEMS RESPOND TO INSTRUCTIONS AND
QUERIES CONCERNING THE SUBJECT MATTER OF THEIR DATA
BY APPROPRIATELY MANIPULATING AND ORGANIZING THE DATA
INTERNALLY. THE CLUES THAT GUIDE THE ORGANIZING
ACTIVITY ARE THE SYNTACTIC RULES OF THE LANGUAGE AND
THEIR SEMANTIC TRANSFORMATIONS. THREE EXAMPLES OF
DEACON SYSTEMS ARE GIVEN. THE 'DEACON
BREADBOARD SUMMARY' OF F. B. THOMPSON (RM
64TMP-9) ACCEPTS QUERIES IN ENGLISH CONCERNING
ITS DATA BASE (REPRESENTING LIST STRUCTURES) AND
RESPONDS BY PRINTING OUT THE ANSWER. THE SECOND
DEACON-TYPE SYSTEM IS THE ON-LINE COMPUTING CENTER
FOR SCIENTIFIC PROBLEMS OF G. J. COLLIER AND B. D.
FRIED (AD-246 532). THE THIRD IS 'SKETCHPAD,
A MAN-MACHINE GRAPHICAL COMMUNICATION
SYSTEM' (AFIPS CONFERENCE PROCEEDINGS, VOL. 23,
SPRING JOINT COMPUTER CONFERENCE, 1963).
MILITARY APPLICATIONS OF THE SYSTEMS ARE DISCUSSED,
THE CENTRAL NOTION BEING ORGANIZATION OF OTHERWISE
DISCONNECTED OBSERVATIONS INTO RELEVANT STRUCTURES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-606 421

ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS
THE DECISION SCIENCES LABORATORY PROGRAM OF
TECHNIQUES AND FACILITIES FOR AUTOMATING RESEARCH, (U)

SEP 64 48P SHUFORD, EMIR H. , JR.;

PROJ: 4690

TASK: 469003

MONITOR: ESD , TDR64 553

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LABORATORIES, DECISION MAKING),
(*COMPUTERS, DECISION MAKING), (*DECISION MAKING,
SCIENTIFIC RESEARCH), MANAGEMENT ENGINEERING,
BEHAVIOR, PERFORMANCE (HUMAN), DATA PROCESSING
SYSTEMS, TRAINING, SIMULATION, INFORMATION RETRIEVAL,
STATISTICAL ANALYSIS, CONTROL SYSTEMS, AUTOMATION (U)
IDENTIFIERS: MAN-MACHINE SYSTEMS (U)

A REPORT IS GIVEN ON THE APPLICATION OF TECHNIQUES
AND THE USE OF COMPUTER FACILITIES IN AUTOMATING
RESEARCH IN THE DECISION SCIENCES LABORATORY.
APPLICATIONS ARE DIVIDED INTO SIX CATEGORIES:
(1) REAL-TIME CONTROL OF EXPERIMENTAL TASKS
PERFORMED BY HUMAN SUBJECTS, (2) STATISTICAL
ANALYSIS OF EXPERIMENTAL DATA, (3) STIMULATION
AND SENSITIVITY ANALYSES, (4) STUDIES IN
INFORMATION RETRIEVAL, (5) TECHNIQUES FOR
IMPROVING THE MAN/COMPUTER INTERFACE, AND (6)
COMPUTER-BASED PERSONNEL SELECTION, CLASSIFICATION,
TRAINING, AND PROFICIENCY TESTING. EXAMPLES ARE
GIVEN OF EACH APPLICATION. THERE IS ALSO INCLUDED
DETAILED FACILITY LAY-OUT AND DESCRIPTION OF
EQUIPMENT CHARACTERISTICS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-608 572

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
TIME-SHARING AND USER-ORIENTED COMPUTER SYSTEMS: SOME
IMPLICATIONS FOR PUBLIC ADMINISTRATORS. (U)
DESCRIPTIVE NOTE: SCIENTIFIC REPT.,
SEP 64 IUP ISAACS, HERBERT M. ;
REPT. NO. SP-1772

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED DURING A PANEL DISCUSSION AT
THE 1964 NATIONAL CONFERENCE OF THE AMERICAN SOCIETY
FOR PUBLIC ADMINISTRATION ON 17 APR 64.

DESCRIPTORS: (*INFORMATION RETRIEVAL, MANAGEMENT
ENGINEERING), (*MANAGEMENT ENGINEERING, INFORMATION
RETRIEVAL), DIGITAL COMPUTERS, DATA PROCESSING
SYSTEMS, PROGRAMMING (COMPUTERS), OPERATIONS RESEARCH,
GOVERNMENT EMPLOYEES, POLICE (U)

THE MATERIAL CONTAINED IN THIS PAPER WAS PRESENTED
DURING A PANEL DISCUSSION AT THE 1964 NATIONAL
CONFERENCE OF THE AMERICAN SOCIETY FOR PUBLIC
ADMINISTRATION ON APRIL 17, 1964. THIS WRITTEN
VERSION IS TO BE PUBLISHED IN THE PROCEEDINGS OF THAT
CONFERENCE. IT CONTAINS A BRIEF SUMMARY OF SOME
NEW ADVANCEMENTS IN COMPUTER SYSTEM TECHNOLOGY AND
THEIR IMPLICATIONS FOR PUBLIC ADMINISTRATION. THE
NEW TECHNIQUES ARE DESCRIBED IN TERMS OF HOW THEY
RELATE TO THREE BASIC CATEGORIES OF INFORMATION
PROCESSING TASKS. AN EXAMPLE OF ONE ADVANCED
APPLICATION IN THE LOS ANGELES POLICE
DEPARTMENT IS THEN GIVEN. THE PAPER CONCLUDES
WITH A DISCUSSION OF SOME BROAD IMPLICATIONS FOR THE
PUBLIC ADMINISTRATOR. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-608 575

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
THE COMPUTER AND THE PROMISE OF AUTOMATION.

(U)

DESCRIPTIVE NOTE: SCIENTIFIC REPT.,

SEP 64 14P SHAW, CHRISTOPHER J. ;

REPT. NO. SP-1751/000-01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT A MEETING OF THE
SOUTHERN CALIFORNIA OCCUPATIONAL THERAPY
ASSOCIATION, 15 SEP 64.

DESCRIPTORS: (*COMPUTERS, AUTOMATION), (*AUTOMATION,
COMPUTERS), (*CYBERNETICS, COMPUTERS), ANALOG
COMPUTERS, DIGITAL COMPUTERS, INFORMATION RETRIEVAL,
DATA PROCESSING SYSTEMS, PROGRAMMING (COMPUTERS),
COMPIERS, MANAGEMENT CONTROL SYSTEMS

(U)

BRIEFLY REVIEWS THE HISTORY OF AUTOMATION.
DESCRIBES THE COMPUTER AS A MACHINE FOR PROCESSING
INFORMATION. OUTLINES SEVERAL COMPUTER PROGRAMS
SUCH AS SYNTHES, HELP, STUDENT AND OTHERS.
DISCUSSES THE COMPUTER IN TERMS OF THE JOB
OPPORTUNITIES IT ENDS AND CREATES. SUGGESTS AREAS
IN WHICH THERE IS WORK TO BE DONE. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO:

AD-609 421

CASE INST OF TECH CLEVELAND OHIO SYSTEMS RESEARCH
CENTER

A THEORY OF SIMPLE CONCEPTS WITH APPLICATIONS, (U)
64 122P WINDEKNECHT, THOMAS G. ;

REPT. NO. SRC-53-A-64-19

CONTRACT: NSF GP6558 , AF AFOSR125 63

MONITOR: AFUSR , 64 2407

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: INVENTORY CONTROL, DATA PROCESSING
SYSTEMS), (*DATA PROCESSING SYSTEMS, INVENTORY
CONTROL), (*ARTIFICIAL INTELLIGENCE, MATHEMATICAL
LOGIC), DIGITAL COMPUTERS, MATHEMATICAL MODELS,
ALGEBRA, THEOREMS, CLASSIFICATION, PATTERN
RECOGNITION, SET THEORY, CONTROL SEQUENCES,
INFORMATION RETRIEVAL (U)
IDENTIFIERS: CONCEPT LEARNING (U)

A THEORETICAL STUDY LEADING TOWARD THE SOLUTION OF
A CLASS OF INVENTORY PROBLEMS BY DIGITAL COMPUTATION
IS REPORTED. USING A FORMAL MODEL OF CONCEPTS IN
THE ACTIVITY OF OBJECT RECOGNITION DUE TO BANERJI,
A THEORY OF SIMPLE CONCEPTS IS CONSTRUCTED. THE
ALGEBRAIC STRUCTURE OF THE CLASS OF SIMPLE CONCEPTS
IS DEVELOPED. A RELATIONSHIP BETWEEN THE FORMAL
NOTIONS OF RELEVANCE AND SIMPLICITY ON THE SET OF
CONCEPTS IS PROVED. THE SIMPLE CONCEPTS ARE SHOWN
TO BE PRECISELY THAT CLASS THAT CAN BE LEARNED BY A
CERTAIN FOCUSING STRATEGY. CONSIDERATION OF THE
CHARACTERISTICS OF THE SET OF SIMPLE CONCEPTS LEADS
TO A NEW TECHNIQUE FOR CONCEPT DESCRIPTION, WHICH IS
PRESENTED AS A FORMALISM. PROGRESS ON A CONCEPT
LEARNING MACHINE BASED UPON THE PROPOSED FORMALISM
FOR CONCEPT DESCRIPTION IS DISCUSSED. THE MACHINE
WILL HAVE A FORMIDABLE CAPACITY FOR SELF-
ORGANIZATION, AND APPEARS TO BE APPLICABLE FOR
SOLUTION OF SOME OF THE INVENTORY PROBLEMS DISCUSSED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-609 486

UTAH UNIV SALT LAKE CITY

INFORMATION AND SCIENTIFIC CREATIVITY, (U)

JUN 64 20P TAYLOR, CALVIN W. I

CONTRACT: AF AFOSR144 63

MONITOR: AFOSR , 64 2502

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PAPER PRESENTED AT THE SECOND SYMPOSIUM OF THE FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY, 13 APR 64, ON THE TOPIC, 'TECHNICAL INFORMATION AND THE FEDERAL LABORATORY.'

DESCRIPTORS: (*SCIENTIFIC PERSONNEL, PERFORMANCE (HUMAN)), (*INFORMATION RETRIEVAL, SCIENTIFIC PERSONNEL), HUMAN ENGINEERING, SUPERVISORY PERSONNEL, SYMPOSIA, INTELLIGENCE TESTS, LEARNING, MEMORY, REASONING, INDUSTRIAL PSYCHOLOGY (U)
IDENTIFIERS: CREATIVE THINKING (U)

IN THIS PAPER THE PROBLEM OF STUDYING WHAT CONSTITUTES EFFECTIVENESS AND CREATIVITY IN A SCIENTIST IS DISCUSSED. THE WAY THE SCIENTIST RECEIVES AND HANDLES INFORMATION, THE INTELLECTUAL CLIMATE IN WHICH HE WORKS, AND THE NATURE OF THE INFORMATION RECEIVED BY HIM ARE ALL EXAMINED IN THEIR BEARING ON THE CREATIVE PROCESS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-609 793

RAND CORP SANTA MONICA CALIF

PRODUCT IMPROVEMENT CANDIDATE SELECTION AND
MANAGEMENT INFORMATION.

(U)

DESCRIPTIVE NOTE: MEMO. REPT.,

NOV 64 28P DEEVERS, K. L. ;

REPT. NO. RM-4324-PR

CONTRACT: AF49 638 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, WEAPON
SYSTEMS), (*WEAPON SYSTEMS, SYSTEMS ENGINEERING),
MANAGEMENT ENGINEERING, DECISION MAKING, DECISION
THEORY, COSTS, MAINTAINABILITY, MAINTENANCE,
SELECTION, QUALITY CONTROL, STANDARDS, PROBABILITY,
RELIABILITY, CORRECTIONS. AIR FORCE PERSONNEL,
EFFECTIVENESS, PERFORMANCE (ENGINEERING), FLIGHT (U)

THE MEMORANDUM DISCUSSES THE WEAPON SYSTEM OUTPUT
PROCESS, AND THE WAY IN WHICH PRODUCT IMPROVEMENTS
CONTRIBUTE TO INCREASED SYSTEM OUTPUT. IT
INVESTIGATES THE USE OF AFM 66-1 DATA FOR PRODUCT
IMPROVEMENT DECISION-MAKING AND DEVOTES PARTICULAR
ATTENTION TO THE PROBLEM OF SELECTING PRODUCT
IMPROVEMENT CANDIDATES. THE PRODUCT IMPROVEMENT
OPTIONS AVAILABLE FALL INTO TWO CATEGORIES: (1)
CHANGES IN MANAGEMENT POLICIES; (2) CHANGES IN
WEAPON SYSTEM HARDWARE PARAMETERS. OF PRIMARY
CONCERN IN THE STUDY ARE AIR FORCE CLASS IV
PRODUCT IMPROVEMENTS, I.E., THOSE AFFECTING SAFETY OF
FLIGHT OR MISSION ESSENTIAL SYSTEMS. A NEW
APPROACH TO PRODUCT IMPROVEMENT, BASED ON THE USE OF
A *PRIORITY MENU,* IS SUGGESTED. THIS MENU
PROVIDES A LISTING OF THE CANDIDATES FOR PRODUCT
IMPROVEMENT ORDERED BY SYSTEM SUPPORT COSTS. THE
DATA NEEDED TO USE THE MENU FOR PRODUCT IMPROVEMENT
ARE GIVEN DETAILED CONSIDERATION. SUGGESTIONS ARE
MADE FOR MANIPULATING THE CURRENT AFM 66-1 DATA TO
OBTAIN AN APPROXIMATION OF SYSTEM DOWNTIME. A KEY
ELEMENT IN DEVELOPING THE MENU. THERE IS ALSO A
DISCUSSION OF THE APPLICATION OF *CONTROL LIMITS*
PROCEDURES TO PRODUCT IMPROVEMENT CANDIDATE
SELECTION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-610 430

CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
STATISTICAL DECISION CRITERIA IN THE EVALUATION OF
INFORMATION SYSTEM PERFORMANCE, (U)

AUG 64 35P KRIEBEL, CHARLES H. ;

REPT. NO. CNR-RM-131

CONTRACT: NONR76024

PROJ: NRO47 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMMUNICATION THEORY, STATISTICAL
ANALYSIS), (*DECISION THEORY, STATISTICAL ANALYSIS),
(*MANAGEMENT ENGINEERING, DECISION MAKING), MANAGEMENT
PLANNING, DISTRIBUTION (ECONOMICS), COSTS,
PROBABILITY, LINEAR SYSTEMS (U)
IDENTIFIERS: INFORMATION SYSTEMS, BAYES THEOREM (U)

AN INFORMATION SYSTEM IS A SERVICE FACILITY TO THE
MANAGEMENT OF AN ORGANIZATION, IN THAT DECISIONS ARE
MADE ON THE BASIS OF INFORMATION SUPPLIED BY THE
SYSTEM. OFTEN THE (ECONOMIC) OBJECTIVES OF AN
ORGANIZATION CAN BE SUMMARIZED WITHIN AN ANALYSIS IN
TERMS OF A FORMAL EX PRESSION. WHERE THE STATE
VARIABLE OUTCOMES OCCUR RANDOMLY, DIFFERENT
INFORMATION SYSTEMS EFFECT DIFFERENT EXPECTED PAYOFFS
TO THE ORGANIZATION. AS THE CONTENT OF INFORMATION
PROVIDED CHANGES WITH DESIGN, THE MATHEMATICAL BASIS
FOR COMPUTING THE EXPECTED PAYOFF CONDITIONED ON THIS
INFORMATION VARIES. USING THE FRAMEWORK OF
STATISTICAL DECISION THEORY IT IS SHOWN THAT
DIFFERENT INFORMATION SYSTEMS CORRESPOND TO APPLYING
DIFFERENT CLASSES OF CONDITIONAL EXPECTATION
OPERATORS TO A RANDOMIZED OBJECTIVE FUNCTION FOR THE
ORGANIZATION. THESE FORMAL ARGUMENTS ARE
ILLUSTRATED BY CONSIDERING A TEAM DECISION PROBLEM
FOR THE CASE WHERE THE PAYOFF FUNCTIONAL IS QUADRATIC
IN THE ACTION AND STATE VARIABLES. EMPLOYING THE
PRIOR-TO-POSTERIOR FRAMEWORK OF BAYES ANALYSIS, A
MEASURE OF THE ECONOMIC PERFORMANCE CAPABILITY OF TWO
SIMPLE INFORMATION SYSTEMS IS SHOWN TO BE A LINEAR
FUNCTION OF THE DISPERSION PARAMETERS IN THE TEAM A
POSTERIORI DISTRIBUTION ON THE STATE VARIABLES
APPEARING IN THE OBJECTIVE FUNCTION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-610 754

HAND CORP SANTA MONICA CALIF

PAPER AND DISCUSSION ON MANAGERIAL CONTROL THEORY FOR
THE ANNUAL MEETING OF THE ACADEMY OF MANAGEMENT
(24TH), (U)

JAN 65 JIP GUTENBERG, A. W. HILL, L. S.

REPT. NO. P-3048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MANAGEMENT CONTROL SYSTEMS, THEORY),
AUTOMATION, CONTROL SYSTEMS, TIME, COMMUNICATION
SYSTEMS (U)

IDENTIFIERS: ORGANIZATIONS, INFORMATION SYSTEMS (U)

'A PERSPECTIVE ON MANAGEMENT CONTROL THEORY,' BY
ARTHUR W. GUTENBERG: MANAGEMENT CONTROLS ARE
CLAIMED (1) TO PROVIDE THE MANAGEMENT OF A FIRM
OR ORGANIZATION WITH THE TOOLS FOR ASCERTAINING
WHETHER PROGRESS IS BEING MADE TOWARD GOALS AND
OBJECTIVES AS INITIALLY PLANNED AND (2) TO ADVISE
ON THE EXTENT OF DEVIATIONS TOWARD ATTAINING THE
GOALS, IF ANY. WHERE THERE ARE DEVIATIONS, THE
CONTROL MUST BE ABLE TO INSTITUTE CORRECTIVE ACTION
OR WARN MANAGEMENT OF ITS INABILITY TO COPE WITH THE
FORCES CAUSING THE DEVIATION. 'DISCUSSION OF
PROFESSOR GUTENBERG'S PAPER,' BY L. S. HILL:
A MULTI-DIMENSIONAL MATRIX IS PRESENTED THAT
SUMMARIZES THE TYPES OF CONTROL SYSTEM NOTED BY
PROF. GUTENBERG, WITH POSSIBLE COMBINATIONS.
THE SYSTEMS MAY BE CLASSIFIED ON THE FOLLOWING
BASES: (1) MANUAL OR AUTOMATIC MAINTENANCE;
(2) TIMEDEPENDENT CATEGORIES, I.E. WHETHER THE
CONTROL OPERATES INTERMITTENTLY OR CONTINUOUSLY;
(3) IN THE ORGANIZATIONAL SENSE, AS HORIZONTAL,
VERTICAL, OR MIXED; OR (4) THE TYPE OF SENSORY
DEVICE UTILIZED, I.E. AS TO THE POTENTIAL FOR
RESPONDING TO VARIABLES OR CONTROL LIMITS. (THESE
PAPERS WERE GIVEN AT THE MEETING HELD IN CHICAGO,
DEC. 29, 1964.) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-611 078

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

SPAN: A SYSTEM FOR URBAN DATA MANAGEMENT.

(U)

DESCRIPTIVE NOTE: SP SERIES,

NOV 64 25P

ALMENDINGER, VLADIMIR V. ;

REPT. NO. SP-1862

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TEXT OF A TALK GIVEN AT THE SECOND ANNUAL CONFERENCE ON URBAN PLANNING INFORMATION SYSTEMS AND PROGRAMS, UNIVERSITY OF PITTSBURGH, SEPTEMBER 24-26, 1964.

DESCRIPTORS: (*MANAGEMENT PLANNING, URBAN AREAS), (*URBAN AREAS, MANAGEMENT PLANNING), (*STATISTICAL DATA, URBAN AREAS), (*INFORMATION RETRIEVAL, URBAN AREAS), STATISTICAL ANALYSIS, COMPUTERS, PROGRAMMING (COMPUTERS), SOCIAL SCIENCES

(U)

IDENTIFIERS: SPAN (STATISTICAL PROCESSING AND ANALYSIS), COMPUTER SOFTWARE, IBM 7090/7094

(U)

THIS REPORT DESCRIBES SPAN (STATISTICAL PROCESSING AND ANALYSIS) SYSTEM AS A LARGE-SCALE MANAGEMENT, FILE PROCESSING, AND STATISTICAL ANALYSIS SYSTEM, PROGRAMMED FOR THE IBM 7090/7094. REPORTS THAT ITS DEVELOPMENT WAS INITIATED AT THE PENN-JERSEY TRANSPORTATION STUDY TO SUPPORT A COMPREHENSIVE SIMULATION MODEL OF REGIONAL GROWTH. REVIEWS SOME OF THE ASPECTS OF PENN-JERSEY'S EXPERIENCE LEADING TO THE DEVELOPMENT OF THE SPAN CONCEPT, AND REPORTS THAT SDC IS EXPANDING THIS SYSTEM TO MAKE IT AVAILABLE TO THE LARGER COMMUNITY OF URBAN DATA USERS. REPORTS THAT TWO INITIAL VOLUMES OF THE SPAN SYSTEM REFERENCE MANUAL (TM-1563, TM-1563/013/00), HAVE BEEN PUBLISHED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 78PVD1

AD-611 079

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
MANAGEMENT COMMUNICATION ACROSS SPACE AND TIME. (U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER,
NOV 64 12P SCHULTZ, LOUISE I

REPT. NO. SP-1860

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, INFORMATION
RETRIEVAL), (*INFORMATION RETRIEVAL, MANAGEMENT
CONTROL SYSTEMS), (*SUBJECT INDEXING, INFORMATION
RETRIEVAL), DOCUMENTATION, OPERATIONS RESEARCH,
MULTIPLE OPERATION (U)

IDENTIFIERS: MULTIPLE ACCESS SYSTEM, COOCCURRENCE
INDEXING (U)

SUPPORT TO MANAGEMENT, BEYOND THAT PROVIDED BY
OPERATIONS CONTROL SYSTEMS, NECESSARY TO CONTINUITY
AND CONSISTENCY IN MANAGEMENT OF LONG RANGE, LARGE
SCALE PROJECTS IS AFFORDED IN A NEW INDEXING
TECHNIQUE AND MACHINE-ORIENTED RETRIEVAL SYSTEM.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-611 867

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
CRITICAL MANAGEMENT POINTS.

(U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER,

FEB 65 21P LABOLLE, V. J

REPT. NO. SP-1934

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE NATO DEPT. OF
DEFENSE COMPUTER INST., PARIS, FRANCE, 22 FEB-6
MAR 65.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, SYSTEMS
ENGINEERING), (*MANAGEMENT ENGINEERING, DATA
PROCESSING SYSTEMS), SCHEDULING, OPERATIONS RESEARCH,
ANALYSIS, AUTOMATIC (U)

REVIEWS CRITICAL PROBLEMS IN THE MANAGEMENT OF
PROGRAM-SYSTEM DEVELOPMENT AND RECOMMENDS TESTED
SOLUTIONS. DEFINES MANAGEMENT PROBLEMS AS
DIFFICULTIES THAT PREVENT OR SLOW A MANAGER IN
DEVELOPING A SPECIFIC PRODUCT, WITH LIMITED RESOURCES
AND ACCORDING TO A GIVEN SCHEDULE. USES A FOUR-
PHASED MODEL OF SYSTEM DEVELOPMENT AS A FRAMEWORK IN
WHICH TO IDENTIFY MANAGEMENT PROBLEMS IN AUTOMATIC
DATA PROCESSING. OUTLINES THIS FRAMEWORK AS
CONSISTING OF: REQUIREMENTS ANALYSIS AND DESIGN,
IMPLEMENTATION AND COMPONENT TEST, SYSTEM INTEGRATION
AND TEST, AND OPERATIONS AND FEEDBACK. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-612 080

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARLINGTON VA
MANAGEMENT ASPECTS OF THE AFOSR MANAGEMENT CONTROL
DATA SYSTEM 'SOFTWARE'. (U)

DESCRIPTIVE NOTE: SCIENTIFIC SUMMARY REPT.,
MAR 65 45P CURRIER, DONALD R. ;
REPT. NO. 65-0272

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT CONTROL SYSTEMS, DATA),
(*PERSONNEL MANAGEMENT, MANAGEMENT CONTROL SYSTEMS),
(*RESEARCH PROGRAM ADMINISTRATION, PERSONNEL
MANAGEMENT), DECISION MAKING, DOCUMENTATION, DATA
PROCESSING SYSTEMS, STANDARDIZATION, SCIENTIFIC
RESEARCH, COMMUNICATION THEORY, COMPUTERS, SYSTEMS
ENGINEERING, DESIGN, AIR FORCE (U)
IDENTIFIERS: MAN-MACHINE SYSTEMS (U)

THE DEVELOPMENT OF THE AFOSR MANAGEMENT CONTROL
DATA SYSTEM INPUT SOFTWARE IS DISCUSSED. THE
VITAL RELATIONSHIP OF THIS INPUT SOFTWARE IN THE
CONCEPT OF THE TOTAL SYSTEM IS STRESSED. THE
NATURE OF MCDS INPUT, THE INPUT/ OUTPUT DATA
RELATIONSHIPS AND THE SIGNIFICANCE OF THE DATA
TRANSITION POINTS ARE DEFINED. TEN COMMANDMENTS
OF INPUT DATA HANDLING NECESSARY TO PROVIDE ACCURATE,
RELIABLE, AND TIMELY OUTPUT FROM THE DATA STORE ARE
PRESENTED. THE APPLICATION OF BEHAVIORISM AND
COMMUNICATION THEORY TO THE HANDLING OF INPUT
SOFTWARE ARE DESCRIBED AND RELATED TO THE DESIGN OF
FORMS, METHODS, AND PROCEDURES USED BY AFOSR TO
GENERATE, RECORD, PROCESS, AND CONTROL THE FLOW OF
INPUT DATA TO THE DATA STORE OF THE MCDS.
(AUTHOR) (U)

UNCLASSIFIED

CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-612 946

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
AUTOMATION, CYBERNETICS, AND EDUCATION.

(U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER;

MAR 65 15P COULSON, JOHN E. ;

REPT. NO. SP-1964

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE CONFERENCE ON
CYBERNETICS IN THE SCHOOL, HELD AT THE UNIVERSITY OF
BRITISH COLUMBIA, VANCOUVER, 20 FEB 65.

DESCRIPTORS: (*CYBERNETICS, EDUCATION), (*EDUCATION,
CYBERNETICS), DATA PROCESSING SYSTEMS, TEACHING
MACHINES, COMPUTERS, STUDENTS, DECISION MAKING,
MANAGEMENT PLANNING, INFORMATION RETRIEVAL,
AUTOMATION

(U)

IDENTIFIERS: PROGRAMMED INSTRUCTION

(U)

THIS PAPER PRESENTS AN OVERVIEW OF RECENT
DEVELOPMENTS IN AUTOMATION, CYBERNETICS, AND DATA-
PROCESSING TECHNOLOGY THAT HAVE DIRECT RELEVANCE FOR
THE FUTURE OF EDUCATION. THE DISCUSSION FOCUSES ON
THE USE OF COMPUTERS TO PROVIDE INDIVIDUALIZED
INSTRUCTION, BUT CONSIDERATION IS ALSO GIVEN TO THE
APPLICATION OF DATA-PROCESSING EQUIPMENT TO PROCESS
FISCAL ACCOUNTS AND ADMINISTRATIVE RECORDS, TO
PROVIDE AUTOMATED ANALYSIS AND ASSESSMENT OF STUDENT
CUMULATIVE RECORDS, AND TO ASSIST IN ADMINISTRATIVE
PLANNING. RESEARCH AT SDC IS USED TO ILLUSTRATE
THESE DEVELOPMENTS AND THEIR RELEVANCE TO EDUCATION.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-612 947

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
USER-ORIENTED INFORMATION SYSTEMS FOR STATE AND LOCAL
GOVERNMENT. (U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER,
MAR 65 23P ISAACS, HERBERT H. ;
REPT. NO. SP-1986

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•INFORMATION RETRIEVAL, MANAGEMENT
PLANNING), (•MANAGEMENT PLANNING, INFORMATION
RETRIEVAL), DOCUMENTATION, SYSTEMS ENGINEERING,
COMPUTERS, DATA PROCESSING SYSTEMS, PROGRAMMING
(COMPUTERS), GOVERNMENT PROCUREMENT, OPERATIONS
RESEARCH, URBAN PLANNING, REAL TIME, COSTS,
STATISTICAL DATA (U)
IDENTIFIERS: TIME SHARING (COMPUTERS), STATE
GOVERNMENT, LOCAL GOVERNMENT (U)

POTENTIAL STATE AND LOCAL GOVERNMENT USERS OF
INFORMATION SYSTEMS ARE CLASSIFIED IN TERMS OF
CATEGORIES OF ACTIVITIES AND LEVELS OF ORGANIZATIONAL
FUNCTION. THE GENERAL INFORMATION REQUIREMENTS OF
THESE USERS ARE DESCRIBED AND CATEGORIZED IN TERMS OF
BASIC SYSTEM CAPABILITIES. THE EXISTING SITUATION
IN STATE AND LOCAL GOVERNMENT INFORMATION SYSTEMS IS
THEN DESCRIBED, INDICATING A NEED FOR MORE ADVANCED,
USER-ORIENTED TECHNIQUES. SUCH METHODS AND
TECHNIQUES CURRENTLY AVAILABLE OR UNDER RESEARCH AND
DEVELOPMENT ARE THEN SURVEYED. BRIEF DESCRIPTIONS
ARE GIVEN OF BASIC IDEAS OR OPERATING PRINCIPLES,
ALONG WITH REFERENCE TO MORE DETAILED DOCUMENTATION.
THE PAPER CONCLUDES WITH SEVERAL RECOMMENDATIONS ON
HOW BEST TO MAXIMIZE TRANSFER OF KNOWLEDGE, EVALUATE
NEW PROCUREMENTS, AND CARRY OUT NEW SYSTEM DESIGN.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-613 271

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

SDC PERSONNEL DATA RETRIEVAL TIMESHARING SYSTEM. (U)

MAR 65 8P

REPT. NO. SP-2008

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PERSONNEL, DATA PROCESSING SYSTEMS),
(*DATA PROCESSING SYSTEMS, PERSONNEL), PROGRAMMING
(COMPUTERS), PERSONNEL MANAGEMENT, INFORMATION
RETRIEVAL, TELETYPE SYSTEMS, DATA (U)
IDENTIFIERS: ECCO PROGRAM, AN/FSQ-32, TIME SHARING (U)
(COMPUTERS)

THE PERSONNEL DATA RETRIEVAL TIME-SHARING SYSTEM, USING THE ECCO PROGRAM, OPERATES UNDER THE AN/FSQ-32 TIME-SHARING SYSTEM TO PROVIDE AN ON-LINE INQUIRY CAPABILITY FOR SEARCHING PERSONNEL DATA FILES AND OUTPUTTING THE REQUIRED INFORMATION. THE INQUIRY CAPABILITY IS PROVIDED BY AN ON-LINE MODEL 28 OR MODEL 33 TELETYPE SEND-RECEIVE SET. THIS EQUIPMENT ALLOWS THE INQUIRER TO INSERT THE COMMANDS, CONTROL INFORMATION, AND SEARCH PARAMETERS REQUIRED FOR THE DATA RETRIEVAL. THE SYSTEM PROVIDES THREE BASIC CAPABILITIES FOR PROCESSING PERSONNEL INFORMATION ITEMS CONTAINED IN THE DATA BASE. THESE ARE: (1) A GENERALIZED SEARCH CAPABILITY WHEREBY INDIVIDUALS WITH VARIOUS BACKGROUNDS AND CHARACTERISTICS MAY BE IDENTIFIED FROM THE DATA BASE. (2) A LIST CAPABILITY IS PROVIDED WHICH ALLOWS THE OPERATOR TO SPECIFY A PRINT-OUT OF ANY OF THE INFORMATION CONTAINED IN EACH INDIVIDUAL'S RECORD IN A VARIETY OF FORMATS. (3) A CAPABILITY IS PROVIDED TO PERFORM TWO STATISTICAL OPERATIONS ON ANY QUANTIFIED ITEMS OF INFORMATION IN THE DATA BASE. THE TWO STATISTICAL ROUTINES ARE THE ARITHMETIC MEAN AND THE RANGE. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-613 285

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SPAN REFERENCE MANUAL. SPAN DATATRANSFORMATIONS AND
STRATIFICATION CAPABILITY, (U)

MAR 65 42P ALMENDINGER, VLADIMIR V. ;

REPT. NO. TM-1563/U14/O1

CONTRACT: CPRI 1543

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-611 078.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, INFORMATION
RETRIEVAL), (*INFORMATION RETRIEVAL, CORRELATION
TECHNIQUES), (*CORRELATION TECHNIQUES, INFORMATION
RETRIEVAL), PROGRAMMING (COMPUTERS), TRANSFORMATIONS
(MATHEMATICS), STATISTICAL ANALYSIS, CLASSIFICATION,
CONTROL SEQUENCES, INSTRUCTION MANUALS, SOCIAL
SCIENCES, MANAGEMENT PLANNING, URBAN AREAS,
COMPILERS (U)

IDENTIFIERS: IBM 7090, IBM 7094, SPAN (STATISTICAL
PROCESSING AND ANALYSIS) (U)

THIS DOCUMENT IS ONE OF A SERIES OF VOLUMES OF THE
SPAN REFERENCE MANUAL DESCRIBING THE SPAN SYSTEM
FOR DATA MANAGEMENT AND STATISTICAL ANALYSIS. THE
SPAN SYSTEM PROVIDES AN INTEGRATED FILE PROCESSING
AND MULTIVARIATE ANALYSIS CAPABILITY FOR PROBLEMS
INVOLVING LARGE DATA MATRICES WITH LARGE NUMBERS OF
VARIABLES. THE SYSTEM IS ORIENTED TO PROBLEMS OF
SOCIAL SCIENCE IN GENERAL AND URBAN DATA ANALYSIS IN
PARTICULAR. THIS VOLUME DESCRIBES THE
SPECIFICATION AND USE OF SPAN CAPABILITIES FOR THE
TRANSFORMATION OF THE CONTENTS OF A DATA FILE IN THE
COURSE OF ITS INPUT TO A SPAN PROCESS. THE DATA-
TRANSFORMATION CAPABILITY ALLOWS THE USER TO STATE
ALGORITHMIC PROCEDURES LEADING TO THE GENERATION OF
NEW DATA VARIABLES AS TRANSFORMATIONS OF THE SOURCE
DATA. THE ENTITY STRATIFICATION CAPABILITY
PROVIDES FOR THE CLASSIFICATION AND SELECTION OF
ENTITY RECORDS ACCORDING TO USER-SPECIFIED CRITERIA.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-613 717

RAND CORP SANTA MONICA CALIF
SOME SUGGESTED TECHNIQUES FOR DATA SYSTEM
DEVELOPMENT.

(U)

DESCRIPTIVE NOTE: REVISED ED.,
DEC 61 17P LITTLE, J. D.; SHELTON, W. V.

REPT. NO. P-2264-1

UNCLASSIFIED REPORT

AVAILABILITY: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE: FOR PRESENTATION AT THE LOS
ANGELES AREA ACM TECHNICAL SYMPOSIUM HELD IN SANTA
MONICA, CALIF., 21 NOV 61 REVISION OF REPT. DATED 25
APR 61 AVAILABLE ONLY FOR REFERENCE USE AT DDC FIELD
SERVICES. COPY IS NOT AVAILABLE FOR PUBLIC SALE.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, SYSTEMS
ENGINEERING), (*SYSTEMS ENGINEERING, DATA PROCESSING
SYSTEMS), (*OPERATIONS RESEARCH, DATA PROCESSING
SYSTEMS), (*MANAGEMENT PLANNING, DATA PROCESSING
SYSTEMS), MANAGEMENT CONTROL SYSTEMS, PROGRAMMING
(COMPUTERS), SCHEDULING

(U)

IDENTIFIERS: PERT COST SYSTEM, PEP

(U)

THIS PAPER PROPOSES A SET OF TECHNIQUES:
CRITICAL-PATH SCHEDULING, SPECIFICALLY PEP/PERT;
DATA ELEMENT IDENTIFICATION AND UTILIZATION MATRICES;
AND PROGRAMMED INTERNAL REPORTING FUNCTIONS. THESE
TECHNIQUES CAN BE USED IN THE PLANNING AND MANAGEMENT
OF DATA SYSTEM DEVELOPMENT. THE DATA SYSTEM MAY BE
LIKE ARLS, THE AUTOMATIC RESUPPLY LOGISTICS
SYSTEM, OR A COMMAND AND CONTROL DATA PROCESSING
SYSTEM, OR LARGE-SCALE SIMULATED SYSTEMS OF THE TYPE
EXECUTED AT RAND. THESE TECHNIQUES COULD BE USEFUL
NOT ONLY IN THE EARLY PLANNING AND IMPLEMENTATION
PHASES OF SYSTEM DEVELOPMENT BUT ALSO IN LATER STAGES
WHEN ANALYSIS OF CURRENT AND EARLIER MODELS OF THE
SYSTEM IS TAKING PLACE. CRITICAL-PATH SCHEDULING
IS ESPECIALLY APPLICABLE DURING EARLY STAGES OF
DEVELOPMENT AND AS A CONTROL DEVICE THROUGHOUT
DEVELOPMENT ACTIVITIES. DATA IDENTIFICATION AND
UTILIZATION MATRICES ARE PARTICULARLY SUITED TO THE
WORKING LEVEL MANAGEMENT OF DATA SYSTEM DEVELOPMENT.
THE USE OF INTERNAL REPORTING FUNCTIONS DURING
LATER DEVELOPMENT STAGES PROVIDES VALUABLE AND
NECESSARY INFORMATION FOR FURTHER DEVELOPMENT
ACTIVITIES. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-614 579

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER
OPERATIONS RESEARCH IN THE WORLD OF TODAY AND
TOMORROW. (U)

JAN 65 12P DANTZIG, GEORGE B. ;
REPT. NO. ORC-65-7
CONTRACT: NONR22283 ,NONR365602

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPUTERS, OPERATIONS RESEARCH);
(*OPERATIONS RESEARCH, COMPUTERS); DECISION MAKING,
PATTERN RECOGNITION, CONTROL SYSTEMS, INFORMATION
RETRIEVAL, MANAGEMENT PLANNING, PROGRAMMING
(COMPUTERS); OPTIMIZATION, LINEAR PROGRAMMING,
CYBERNETICS, USSR (U)
IDENTIFIERS: SCOOP (U)

OPERATIONS RESEARCH IN THE WORLD OF TODAY AND TOMORROW.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-615 731

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
FUNDAMENTALS OF INFORMATION PROCESSING AND COMPUTERS (U)
FOR STATE AND LOCAL GOVERNMENT,

MAY 65 34P KIBBEE, JOEL M. I
REPT. NO. SP-2073

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, MANAGEMENT
ENGINEERING), (*COMPUTERS, MANAGEMENT ENGINEERING),
PROGRAMMING (COMPUTERS), REAL TIME, PROGRAMMING
LANGUAGES, INPUT-OUTPUT DEVICES (U)

IDENTIFIERS: TIME SHARING (COMPUTERS), ON-LINE
SYSTEMS, INFORMATION SYSTEMS, LOCAL GOVERNMENTS (U)

THE PAPER INTRODUCES TO THE PUBLIC MANAGER THE
FUNDAMENTALS OF INFORMATION PROCESSING AND COMPUTERS.
TO UNDERSTAND COMPUTERS, IT IS NECESSARY TO
DISTINGUISH BETWEEN 'HARDWARE' AND 'SOFTWARE.'
HARDWARE IS THE PHYSICAL PIECE OF EQUIPMENT.
SOFTWARE IS EVERYTHING ELSE--PROGRAMS AND
PROCEDURES--NEEDED BY PEOPLE TO MAKE COMPUTERS
USEFUL. A COMPUTER SHOULD NOT BE THOUGHT OF AS
SOMETHING WHICH EXISTS INDEPENDENTLY OF SOFTWARE.
THIS PAPER DEALS FIRST WITH THE INFORMATION SYSTEM--
A COLLECTION OF MEN, MACHINES, AND SOFTWARE, WITH
EACH ASSIGNED THAT TASK WHICH EACH DOES BEST--AND
THEN DISCUSSES HARDWARE AND DATA COMMUNICATIONS.
SOFTWARE, MORE IMPORTANT THAN HARDWARE, AND EQUALLY
COSTLY, IS TREATED WITH PRIMARILY EMPHASIS ON
PROGRAMMER AND USER LANGUAGES. TIME-SHARING,
SOFTWARE-SHARING, AND INFORMATION-SHARING ARE
COVERED, AS WELL AS THE CONCEPTS OF A UNIFIED
INFORMATION SYSTEM AND A COORDINATED INFORMATION
SYSTEM. THE PAPER CONCLUDES WITH A SUGGESTION THAT
STATE AND LOCAL GOVERNMENT MIGHT, THROUGH JOINT
DEVELOPMENT, DECREASE THE COST OF SOFTWARE FOR EACH
OF THEM. (AUTHOR) (U)

UNCLASSIFIED

/BPVO1

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-616 112

CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
TEAM DECISION MODELS OF AN INVENTORY SUPPLY
ORGANIZATION. (U)

DESCRIPTIVE NOTE: MANAGEMENT SCIENCE RESEARCH REPT.,

JAN 65 31P KRIEBEL, CHARLES H. I

REPT. NO. MSRR-30

CONTRACT: NONR76024

PROJ: NR047 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DECISION
MAKING), (*DECISION THEORY, STATISTICAL
ANALYSIS), (*COMMUNICATION THEORY, STATISTICAL
ANALYSIS), COSTS, LINEAR SYSTEMS, INVENTORY
CONTROL, DISTRIBUTION(ECONOMICS), LOGISTICS,
PROBABILITY (U)

IDENTIFIERS: INFORMATION SYSTEMS (U)

PROPOSITIONS FROM TEAM DECISION THEORY MAY BE
EMPLOYED ADVANTAGEOUSLY TO RESOLVE BEHAVIORAL ISSUES
IN THE FORMAL DESCRIPTION OF ORGANIZATIONAL DECISION
PROCESSES. IN SPECIFYING THE INFORMATION STRUCTURE
OF AN ORGANIZATION WITHIN THE ANALYSIS OF TEAM
PROBLEMS IT BECOMES USEFUL TO DISTINGUISH BETWEEN
COMPONENTS OF THE DATA GENERATING PROCESS AND THE
INFORMATION SYSTEM. AN INFORMATION SYSTEM CAN BE
DESCRIBED COMPLETELY IN TERMS OF (1) THE SPACE
OF ORGANIZATIONAL OUTCOMES (OR STATES OF THE
WORLD), $(X \text{ SUB } I) \in A$; (2) THE SPACE OF
INFORMATION, $(Z \text{ SUB } K) \in Z$; AND (3) THE
SYSTEM LIKELIHOOD FUNCTION OR CONDITIONAL PROBABILITY
OF EACH ITEM OF INFORMATION, $Z \text{ SUB } K$, GIVEN THE
OUTCOME, $X \text{ SUB } I$, FOR EACH $Z \text{ SUB } K$ CONTAINED IN
 Z AND $X \text{ SUB } I$ CONTAINED IN A . THE FRAMEWORK OF
APPLIED STATISTICAL DECISION THEORY PROVIDES AN
OPERATIONAL PROCEDURE FOR THE NORMATIVE ANALYSIS OF
ALTERNATIVE DECISION RULE PROGRAMS AND INFORMATION
SYSTEMS. THESE CONSIDERATIONS ARE ILLUSTRATED FOR
A SIMPLE LOGISTICS ORGANIZATION WITH OPERATING COSTS
GIVEN BY A CONSTRAINED ASYMMETRIC LINEAR FUNCTION OF
INVENTORY AND DEMAND. IN PARTICULAR, BOTH NORMAL
AND EXTENSIVE FORM ANALYSES OF THE TEAM DECISION
PROBLEM ARE DETAILED UNDER SEVERAL LOGISTICS
INFORMATION SYSTEMS. (AUTHOR) (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-616 113

CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
A RESUME OF MATHEMATICAL RESEARCH ON INFORMATION
SYSTEMS. (U)

DESCRIPTIVE NOTE: MANAGEMENT SCIENCES RESEARCH REPT.,

APR 65 18P KRIEBEL, CHARLES H. I

REPT. NO. MSRR-33

CONTRACT: NONR76024

PROJ: NR047 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REVISION OF REPORT DATED FEB 65.

DESCRIPTORS: (*MATHEMATICAL MODELS, COMMUNICATION
THEORY), (*BIBLIOGRAPHIES, COMMUNICATION THEORY),
(*COMMUNICATION THEORY, DATA PROCESSING SYSTEMS),
MANAGEMENT CONTROL SYSTEMS, OPERATIONS RESEARCH,
DOCUMENTATION, MANAGEMENT PLANNING, COMPUTERS (U)
IDENTIFIERS: INFORMATION SYSTEMS (U)

THIS PAPER PRESENTS A CROSS-REFERENCED BIBLIOGRAPHY
ON RESEARCH EMPLOYING MATHEMATICAL MODELS IN THE
STUDY OF INFORMATION SYSTEMS. ALTHOUGH THE LISTING
IS INTENDED PRIMARILY AS A REPRESENTATIVE
INTRODUCTION TO THE LITERATURE, THE ENTRIES CONTAIN
MORE THAN TEN THOUSAND SECONDARY REFERENCES.
(U)
(AUTHOR)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 78PV01

AD-616 594

RAND CORP SANTA MONICA CALIF

LONG-RANGE CONSIDERATIONS IN DATA PROCESSING FOR
STATE AND LOCAL GOVERNMENTS.

(U)

APR 60 7P POSTLEY, JOHN A. ;
REPT. NO. P-1961-RC

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (DATA PROCESSING SYSTEMS, URBAN
AREAS), (URBAN AREAS, DATA PROCESSING SYSTEMS),
INFORMATION RETRIEVAL, COMMUNICATION THEORY,
COMPUTERS, MANAGEMENT PLANNING

(U)

THE PURPOSE OF THIS PAPER IS TO TRY TO INDICATE THE
MAJOR IMPACT OF FUTURE APPLICATIONS OF DATA
PROCESSING IN STATE AND LOCAL GOVERNMENT, AND SOME OF
THE DEVELOPMENTS WHICH FORETELL THIS IMPACT.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-617 904

CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
SOME DEVELOPMENTS IN MANAGEMENT SCIENCE AND
INFORMATION SYSTEMS WITH RESPECT TO MEASUREMENT IN
ACCOUNTING. (U)

DESCRIPTIVE NOTE: MANAGEMENT SCIENCES RESEARCH REPT.,
MAR 65 42P CHURCHILL, NEIL I

STEDRY, ANDREW I

REPT. NO. MSR-42

CONTRACT: NONR76024

PROJ: NRC47 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT PLANNING, COMMERCE),

(*MANAGEMENT CONTROL SYSTEMS, COMMERCE),

MANAGEMENT ENGINEERING, COMPUTERS, DATA
PROCESSING SYSTEMS, MONEY, COSTS, BUDGETS,

LOGISTICS, DECISION MAKING, RELIABILITY,

MATHEMATICAL ANALYSIS (U)

IDENTIFIERS: ACCOUNTING, INFORMATION SYSTEMS,

BEHAVIORAL SCIENCES (U)

DEVELOPING TECHNIQUES IN MANAGEMENT SCIENCE,
BEHAVIORAL SCIENCE, AND INFORMATION SYSTEMS ARE
DISCUSSED IN THE CONTEXT OF ACCOUNTING MEASUREMENT.
DATA REQUIREMENTS FOR IMPLEMENTATION OF THE NEW
PLANNING AND CONTROL TECHNIQUES ARE CONSIDERED AND
COMPARED WITH DATA FURNISHED BY ACCOUNTING REPORTS.
INPUT DATA AND AGGREGATION IN CONTEMPORARY
INFORMATION SYSTEMS ARE COMPARED WITH RECORDING AND
CLASSIFICATION IN CONVENTIONAL ACCOUNTING SYSTEMS.
IT IS PROPOSED THAT ACCOUNTING MEASUREMENT
PRINCIPLES BE DEVELOPED FOR DATA IN 'MICRO' UNITS,
MUCH SMALLER THAN THE TRANSACTION, WHICH SERVE AS
DATA INPUTS IN ON-LINE REAL-TIME INFORMATION SYSTEMS.
IT IS ALSO PROPOSED THAT ACCOUNTING MEASUREMENT
PRINCIPLES BE EXTENDED TO INCLUDE NON-MONETARY UNITS
AND, IN PARTICULAR, TO EVALUATING THE MEASUREMENT
PROCEDURES USED IN DETERMINING THE 'MACRO' UNITS,
MUCH LARGER THAN THE TRANSACTION, WHICH SERVE AS
INPUTS FOR PLANNING AND CONTROL TECHNIQUES DEVELOPED
IN THE MANAGEMENT AND BEHAVIORAL SCIENCES.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-616 075

PLANNING RESEARCH CORP LOS ANGELES CALIF INFORMATION
SYSTEMS DIV

USE OF AIR FORCE ADPS EXPERIENCE IN JUDGING PROPOSALS
FOR NEW AUTOMATION. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

MAR 65 130P GRADWOHL, ALAN J. ;

LACKNER, MICHAEL R. ; ROSEN, WILLIAM A. ;

SHELTON, WAYNE V. ;

CONTRACT: AF19 628 4979

PROJ: 7990

TASK: 38

MONITOR: ESD , TR-65-277

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT PLANNING, AIR FORCE),

(*DATA PROCESSING SYSTEMS, AIR FORCE), (*AIR

FORCE, DATA PROCESSING SYSTEMS), AUTOMATION,

SYSTEMS ENGINEERING, DECISION MAKING, COSTS,

MANPOWER STUDIES, JOB ANALYSIS, AIR FORCE

PERSONNEL, MATHEMATICAL MODELS, EFFECTIVENESS,

INFORMATION RETRIEVAL, CLASSIFICATION,

ABSTRACTING, MEASUREMENT (U)

IDENTIFIERS: MAN-MACHINE SYSTEMS (U)

THE OBJECTIVES OF THIS STUDY WERE (1) SYNTHESIS
OF A CONCEPT FOR USING AIR FORCE ADPS
EXPERIENCE TO AID AIR FORCE MANAGEMENT IN JUDGING
PROPOSALS FOR NEW AUTOMATION, AND (2)
SPECIFICATION OF AN IMPLEMENTATION PLAN FOR
VALIDATING AND REFINING THE CONCEPT BY APPLICATION TO
A SUBSET OF AIR FORCE ADP SYSTEMS DURING
PHASE II. THIS REPORT SATISFIES THE ABOVE
OBJECTIVES. THE KEY ASSUMPTION UNDERLYING THE
CONCEPT DEVELOPED IS THAT THE WORKLOAD OF THE ADPS
(E.G., VOLUME AND VARIETY OF INPUTS, SIZE AND
COMPLEXITY OF DATA BASE, RESPONSE TIME) IS THE
PRIMARY CASUAL FACTOR FOR THE COST AND DEVELOPMENT
TIME OF THE ADPS. A DISTILLATION OF AIR FORCE
ADPS EXPERIENCE WILL BE PROVIDED TO AIR FORCE
MANAGEMENT FOR VALIDATING PERFORMANCE, COST, AND
DEVELOPMENT TIME ESTIMATES IN PROPOSALS FOR NEW
AUTOMATION. THIS COMPENDIUM OF ADPS EXPERIENCE
WILL CONTAIN (1) HIGHLY DISTILLED QUANTITATIVE
AND QUALITATIVE SUMMARIES GIVING THE CURRENT STATUS
AND IMPLEMENTATION/ OPERATIONS HISTORIES OF ADP
SYSTEMS WITH WORKLOADS SIMILAR TO THAT OF THE
PROPOSED AUTOMATION, AND (2) GENERAL ADPS
PLANNING FACTORS SHOWING THE QUANTITATIVE (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD9618 364

RAND CORP SANTA MONICA CALIF

A SUGGESTED METHOD FOR INTEGRATION OF MAJOR
CONTRACTOR FINANCIAL REPORTING REQUIREMENTS,

(U)

JUN 65 87P WHITCOMB, D. K. ;

REPT. NO. RM-4519-PR

CONTRACT: AF49 638 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*WEAPON SYSTEMS, COSTS), (*AIR
FORCE PROCUREMENT, WEAPON SYSTEMS), (*MANAGEMENT
PLANNING, AIR FORCE PROCUREMENT), (*ARMED FORCES
BUDGETS, WEAPON SYSTEMS), MILITARY REQUIREMENTS,
DATA PROCESSING SYSTEMS, SYSTEMS ENGINEERING,
MANAGEMENT CONTROL SYSTEMS, DEFENSE SYSTEMS, AIR
FORCE SYSTEMS COMMAND, DEPARTMENT OF DEFENSE
IDENTIFIERS: PERT, INFORMATION SYSTEMS

(U)

(U)

THE REPORT PRESENTS A DESCRIPTION OF AN INTEGRATED
INFORMATION SYSTEM FOR CONTRACTOR COST REPORTING,
WHICH IS PROPOSED TO MEET THE NEED FOR A UNIFIED
SYSTEM OF COLLECTING FINANCIAL INFORMATION COVERING
LONG-RANGE PLANNING, PROGRAM CONTROL, AND HISTORICAL
RECORDKEEPING (DATA BANK) FUNCTIONS IN WEAPON
SYSTEM DEVELOPMENT. THE SYSTEM PROVIDES A
CONDENSED YET COMPREHENSIVE REPORT PACKAGE THROUGH
COMBINATION AND CONDENSATION OF THE REPORTING
REQUIREMENTS INCLUDED PRIMARILY IN THE AFSC
CONTRACTOR COST STUDY, THE PERT-COST
SYSTEM, AND THE DEFENSE CONTRACTORS' PLANNING
REPORT. MAJOR SPECIFICATIONS OF A SINGLE
UNDERLYING DATA COLLECTION SYSTEM CAPABLE OF
PRODUCING ALL THE REQUIRED FORMATS ARE PRESENTED.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-619 019

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
THE MANAGEMENT OF INFORMATION PROCESSING.

(U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER,

JUL 65 40P WEINWURM, GEORGE F. ;

REPT. NO. SP-1992/000/01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: FOR PRESENTATION AT THE SYMPOSIUM ON
ECONOMICS OF AUTOMATIC DATA PROCESSING, TO BE
SPONSORED BY THE INTERNATIONAL COMPUTATION CENTRE,
ROME, ITALY, 19-22 OCT 64.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, MANAGEMENT
ENGINEERING), (*COMPUTERS, MANAGEMENT
ENGINEERING), COMPUTERS, MANAGEMENT CONTROL
SYSTEMS, REAL TIME, PROGRAMMING (COMPUTERS)

(U)

IDENTIFIERS: ACCOUNTING, INFORMATION SYSTEMS

(U)

THE MEASUREMENT OF ECONOMIC ACTIVITY AND VALUE
NATURALLY RESTS ON THE AVAILABILITY OF REASONABLY
PRECISE AND GENERALLY AVAILABLE DEFINITIONS OF THE
TYPES OF TASKS TO BE UNDERTAKEN, AND STANDARDS BY
WHICH THEIR PERFORMANCE CAN BE COMPARED. THE
GREATEST DIFFICULTY IN MANAGING INFORMATION
PROCESSING AT PRESENT IS SIMPLY THAT SUCH DEFINITIONS
AND STANDARDS EITHER DO NOT EXIST OR ARE NOT
GENERALLY ACCEPTED. THOSE DELINEATIONS OF
INFORMATION PROCESSING TASKS THAT ARE COMMON TO THE
LITERATURE HAVE EVOLVED IN RESPONSE TO THE NEEDS OF
DIVERSE DISCIPLINES--SUCH AS ACCOUNTING, COMPUTER
PROGRAMMING, CONTROL ENGINEERING, ETC.--UNDER
DISSIMILAR CONDITIONS, AND HAVE NOT BEEN RELATED IN
ANY MEANINGFUL WAY. THE PRESENT PAPER IS IN FOUR
PARTS. THE FIRST PART PRESENTS SOME INHERENT
DIFFICULTIES IN RESOLVING THESE DIFFERENT VIEWPOINTS
TOWARD THE END OF DEVELOPING MEASURES AND STANDARDS
FOR MANAGEMENT IN THE FIELD OF INFORMATION
PROCESSING. THE SECOND PART CONSIDERS THE NOTION
OF *REAL TIME* AS AN EXAMPLE OF A TERMINOLOGICAL
PROBLEM, AND THE DIFFICULTIES THAT ARE APPARENT IN
USING THE TERM AS A MEANS OF CLASSIFYING SYSTEMS.
THE THIRD PART SUGGESTS AN ALTERNATE WAY OF
DESCRIBING THE RELATION OF INFORMATION PROCESSING
TASKS TO A DYNAMIC ENVIRONMENT. THE FOURTH PART
SUMMARIZES THE POINT OF VIEW OF THE PAPER.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-619 709

NATIONAL SECURITY INDUSTRIAL ASSOCIATION WASHINGTON D
C

PROCEEDINGS OF DOD/NSIA TECHNICAL INFORMATION
SYMPOSIUM FOR MANAGEMENT, 26-27 MAY, 1965, STATLER
HILTON HOTEL, LOS ANGELES, CALIFORNIA. (U)

MAY 65 113P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: FOR SALE BY NATIONAL SECURITY
INDUSTRIAL ASSOCIATION, WASHINGTON, D. C., 20005,
\$3.76.

DESCRIPTORS: (*DOCUMENTATION, SYMPOSIA),
(*MANAGEMENT ENGINEERING, SYMPOSIA), (*SCIENTIFIC
RESEARCH, DOCUMENTATION), DEPARTMENT OF DEFENSE,
NAVY, AIR FORCE, ARMY, DATA, INDUSTRIES,
INDUSTRIAL RESEARCH, PROCUREMENT (U)
IDENTIFIERS: TECHNOLOGY (U)

CONTENTS: PROGRESS IN PERSPECTIVE - GUIDELINES
FOR THE FUTURE, DEFENSE ORGANIZATION FOR DATA
MANAGEMENT, INTERFACES WITH OTHER GOVERNMENT
AGENCIES, SCIENTIFIC INFORMATION, INTERACTION OF
INDUSTRY WITH INFORMATION, SCIENTIFIC INFORMATION -
A MANAGEMENT TOOL AND A GOVERNMENT/INDUSTRY PROBLEM,
MANAGEMENT OF SCIENTIFIC INFORMATION, DEFENSE
DATA MANAGEMENT PROGRAM OBJECTIVES, CRITERIA FOR
ACQUISITION, RIGHTS IN DATA, DATA ASPECTS OF
CONFIGURATION MANAGEMENT, P. D. P. (PROJECT
DEFINITION PHASE) PASSED DOWN, PLUS
PROPRIETARY DATA PROBLEMS, TECHNICAL DATA
MANAGEMENT IN AIR FORCE, TECHNICAL DATA
MANAGEMENT IN ARMY MATERIAL COMMAND, CURRENT
DEVELOPMENTS IN TECHNICAL DATA MANAGEMENT IN THE
NAVY, WHAT IS WANTED BY INDUSTRY. (U)

UNCLASSIFIED

/BPVO1

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-621 379

COMPUTER CONCEPTS INC SILVER SPRING MD
THE ROLE OF HUMAN FACTORS TASK DATA IN AEROSPACE
SYSTEM DESIGN AND DEVELOPMENT.

(U)

DESCRIPTIVE NOTE: FINAL REPT. FOR 15 JUN 64-15 FEB 65.

AUG 65 98P HANNAH, L. DUNCAN ;
BOLDOVICI, JOHN A. ; ALTMAN, JAMES W. ;
MANION, RAYMOND C. ;

CONTRACT: AF33 615 1557

PROJ: 1710

TASK: 171006

MONITOR: AMKL , TR-65-131

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUBCONTRACTED TO AMERICAN INST.
FOR RESEARCH, PITTSBURGH, PA.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, HUMAN
ENGINEERING), (*HUMAN ENGINEERING, WEAPON
SYSTEMS), (*SPACE FLIGHT, SYSTEMS ENGINEERING),
(*AIR FORCE, SYSTEMS ENGINEERING), MANAGEMENT
ENGINEERING, PERSONNEL MANAGEMENT, DECISION
MAKING, AUTOMATION, INFORMATION RETRIEVAL,
SUPERVISORY PERSONNEL, COMPUTERS, DATA STORAGE
SYSTEMS, PERFORMANCE(HUMAN), GROUND SUPPORT
EQUIPMENT

(U)

IDENTIFIERS: MAN-MACHINE SYSTEMS

(U)

ON THE BASIS OF INFORMATION GATHERED FROM
GENERATORS AND USERS OF HUMAN FACTORS TASK DATA BY
BOTH INTERVIEWS AND QUESTIONNAIRES AND BY A REVIEW OF
RELEVANT LITERATURE, HUMAN FACTORS PERSONNEL AND DATA
WERE IDENTIFIED, THE RELATIONS BETWEEN THEM
DESCRIBED, AND RECOMMENDATIONS FOR AN AUTOMATED HUMAN
FACTORS TASK DATA HANDLING SYSTEM PROPOSED. HUMAN
FACTORS PERSONNEL WERE CLOSELY DIVISIBLE INTO FOUR
HIERARCHICALLY ARRANGED GROUPS: PROGRAM LEVEL
MANAGERS, PERSONNEL SUBSYSTEM MANAGERS,
DEPARTMENT HEADS, AND NONMANAGERIAL
PERSONNEL. IN GENERAL, AND FOR THE POPULATIONS
DESCRIBED, MANAGERS OR SUPERVISORS WERE THE PRINCIPAL
USERS AND NONMANAGERIAL PERSONNEL THE PRINCIPAL
GENERATORS OF HUMAN FACTORS DATA. A FRAMEWORK THAT
PERMITS CLASSIFICATION OF BOTH FORMATTED AND
UNFORMATTED DATA WAS PROPOSED AS RESPONSIVE TO THE
GENERALLY FELT NEED BY DATA GENERATORS AND USERS FOR
MORE ORDERLY 'BOOKKEEPING' IN THE HUMAN FACTORS
REALM. DESIRABLE CHARACTERISTICS OF AN AUTOMATED
HUMAN FACTORS TASK DATA HANDLING SYSTEM WERE DERIVED
FROM THE QUESTIONNAIRE RESPONSES.

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UNCLASSIFIED

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UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-621 512

NORTHWESTERN UNIV EVANSTON ILL TECHNOLOGICAL INST
A CHANCE-CONSTRAINED MODEL FOR REAL-TIME CONTROL IN
RESEARCH AND DEVELOPMENT MANAGEMENT. (U)

DESCRIPTIVE NOTE: SYSTEMS RESEARCH MEMO.,

JUL 65 18P CHARNES, ABRAHAM ;

STEDRY, ANDREW C. ;

REPT. NO. SRM-130

CONTRACT: NONR122810 , DA31 124ARO D322

PROJ: NRO47 021 , NRO47 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MANAGEMENT CONTROL SYSTEMS,
RESEARCH PROGRAM ADMINISTRATION), (*MANAGEMENT
PLANNING, RESEARCH PROGRAM ADMINISTRATION),
(*RESEARCH PROGRAM ADMINISTRATION, MANAGEMENT
ENGINEERING), (*MATHEMATICAL PROGRAMMING,
MANAGEMENT ENGINEERING), STOCHASTIC PROCESSES,
DECISION MAKING, REAL TIME, DATA PROCESSING
SYSTEMS, COMPUTERS, OPERATIONS RESEARCH,
BUDGETS, OPTIMIZATION (U)

IDENTIFIERS: CHANCE-CONSTRAINED PROGRAMMING (U)

FUNDING OF RESEARCH PROJECTS IS CONSIDERED AS
ENCOMPASSING THREE STAGES: (1) AN INITIAL SHORT
RUN PLAN FOR FUNDING BASED UPON PROJECTED REGULAR
DEMANDS AND AVAILABILITY SUBJECT TO RANDOM
DEVIATIONS; (2) ADJUSTMENT OF THE INITIAL PLAN TO
TAKE INTO ACCOUNT THE ACTUAL REGULAR DEMANDS AND
AVAILABILITY AND THE FUNDING OF SIGNIFICANT BREAK-
THROUGHS WHICH OCCUR AT RANDOM INTERVALS PREEMPTING
OTHER DEMANDS; AND (3) A PLAN FOR LONGER-RUN
AVAILABILITY AND DEMANDS WHICH CONSTITUTE A *POSTURE*
DESIRED SUBSEQUENT TO THE FUNDING ADJUSTMENTS OF
(2). THE ESSENCE OF THE DISTRIBUTION OF THE
UNEXPECTED DEMANDS IS MULTIMODALITY WITH LOW
PROBABILITY OF OCCURRENCE BUT HIGH RESOURCE DEMAND
WHEN THEY DO OCCUR. THIS APPROACH REPRESENTS A
SUBSTANTIAL DEPARTURE FROM THE USUAL PLANNING MODEL
DEVELOPMENT WHICH PRODUCES ONLY AN OPTIMAL PLAN BASED
ON FORECASTED DEVELOPMENTS WITHOUT PROVISION FOR
ADJUSTMENT WHEN THE FORECASTED EVENTS ACTUALLY
MATERIALIZER AND ADDITIONAL UNEXPECTED DEMANDS ARE
PLACED ON RESOURCES.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-622 212

NAVAL MEDICAL RESEARCH LAB NEW LONDON CONN
DESIGN OF A METHOD FOR RECORDING MEDICAL DATA
SIGNIFICANT IN MEDICAL EXAMINATIONS FOR SUBMARINE
SCHOOL CANDIDATES IN ORDER TO PERMIT RAPID ANALYSIS
BY PUNCH CARD TECHNIQUES. (U)

DESCRIPTIVE NOTE: PROGRESS REPT. NO. 2;

OCT 44 SP WILLMON, T. L. ; BARTLETT, N. R. ;

REPT. NO. MKL-47

PROJ: A247

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MEDICAL EXAMINATION, DATA STORAGE
SYSTEMS), (*PUNCHED CARDS, DATA PROCESSING
SYSTEMS), (*INFORMATION RETRIEVAL, PERSONNEL
MANAGEMENT), (*SUBMARINE PERSONNEL, PERSONNEL
MANAGEMENT), STUDENTS, PSYCHOMETRICS, SELECTION,
DESIGN, ANALYSIS, NAVAL PERSONNEL, VISION,
HEARING (U)

SOME TRENDS IN THE PHYSICAL AND PSYCHOLOGICAL
CHARACTERISTICS OF ENLISTED CANDIDATES FOR THE
SUBMARINE SCHOOL, NEW LONDON, CONNECTICUT
ARE REPORTED. THESE TRENDS ARE REVEALED BY
ANALYSES OF INTERNATIONAL BUSINESS MACHINE
CARDS PUNCHED IN ACCORDANCE WITH THE TECHNIQUE
OUTLINED IN AD-622 216. A MARKED IMPROVEMENT IN
CERTAIN PSYCHOLOGICAL CHARACTERISTICS IS NOTED.
THERE WAS AN INCREASE IN THE NUMBER OF MEN FAILING
STANDARDS FOR VISUAL AND AUDITORY SENSITIVITY.
MOTIVATION AND PHYSICAL EXAMINATION DATA
(EXCLUSIVE OF AUDITORY AND VISUAL FUNCTION) SHOW
NO SIGNIFICANT TREND. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-622 216

NAVAL MEDICAL RESEARCH LAB NEW LONDON CONN
DESIGN OF A METHOD FOR RECORDING MEDICAL DATA
SIGNIFICANT IN MEDICAL EXAMINATIONS FOR SUBMARINE
SCHOOL CANDIDATES IN ORDER TO PERMIT RAPID ANALYSIS
BY PUNCH-CARD TECHNIQUES, (U)
MAY 44 13P WILLMON, T. L. BARTLETT, N. R. :

REPT. NO. MRL-40

PROJ: A247

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MEDICAL EXAMINATION, DATA STORAGE
SYSTEMS), (*PUNCHED CARDS, DATA PROCESSING
SYSTEMS), (*INFORMATION RETRIEVAL, PERSONNEL
MANAGEMENT), (*SUBMARINE PERSONNEL, PERSONNEL
MANAGEMENT), STUDENTS, NAVAL PERSONNEL, DESIGN,
RECORDS, SELECTION, ANALYSIS,
PSYCHOMETRICS (U)

AN IBM PUNCH-CARD PERSONNEL ACCOUNTING SYSTEM TO
FURNISH INFORMATION FOR MEDICAL AND PERSONNEL
SELECTION OFFICERS IS DESCRIBED. THE SYSTEM WAS
DEVELOPED TO SUIT THE NEEDS OF A PARTICULAR SERVICE
SCHOOL SITUATION; THE REPORT WAS PREPARED IN ORDER TO
DEMONSTRATE ONE APPROACH FOR DEALING WITH PERSONNEL
DATA; AND IT IS EMPHASIZED THAT OTHER SITUATIONS MAY
REQUIRE A COMPLETELY DIFFERENT DESIGN. (AUTHOR) (U)

UNCLASSIFIED

/BPVO1

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-622 333

IIT RESEARCH INST CHICAGO ILL TECHNOLOGY CENTER
TRAJECTORY ANALYSIS FOR STRUCTURAL FRAGMENTS.

(U)

DESCRIPTIVE NOTE: FINAL REPT., ADDENDUM TO DEBRIS
CLEARANCE STUDY,

AUG 65 103P

AHLERS, EDWARD B. ;

REPT. NO. SHM-65-1

CONTRACT: OGD 0562-202

PROJ: IITRIM264

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•NUCLEAR EXPLOSION DAMAGE, URBAN
AREAS), (•FRAGMENTATION, TRAJECTORIES),
STRUCTURAL PARTS, EXPLOSION EFFECTS, ANALYSIS

(U)

TRAJECTORIES OF STRUCTURAL FRAGMENTS SUBJECT TO
NUCLEAR BLAST WINDS ARE ANALYZED ON THE FOLLOWING
BASIS: TOTAL TRAJECTORY TIME IS CONSIDERED TO BE
FREEFALL TIME OF DROP FROM INITIAL FRAGMENT HEIGHT;
DRAG IN VERTICAL DIRECTION IS NEGLECTED; BLAST
WINDS ARE CONSIDERED EFFECTIVE FOR TOTAL TRAJECTORY
TIME, I. E., STRUCTURAL FAILURE OCCURS AT TIME OF
SHOCK ARRIVAL AND DOES NOT AFFECT THE SHAPE OF THE
FREE-FIELD BLAST WAVE; NEGATIVE PHASE WINDS ARE
INCLUDED IN THE ANALYSIS; TRAJECTORIES ARE COMPUTED
FOR SPHERICAL MASONRY FRAGMENTS, YIELDING RESULTS FOR
CERTAIN VALUES OF EFFECTIVE AERODYNAMIC COEFFICIENTS;
AND EFFECTS OF ORIENTATION AND ROTATION ON THE
EFFECTIVE AERODYNAMIC COEFFICIENTS FOR ANGULARLY-
SHAPED OBJECTS ARE NOT INCLUDED.

(U)

UNCLASSIFIED

~~DOC~~ REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-622 520

STANFORD RESEARCH INST MENLO PARK CALIF
RESEARCH ON COMPUTER-AUGMENTED INFORMATION
MANAGEMENT.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

MAR 65 132P ENGELBART, D. C. ;

HUDDART, BONNIE ;

CONTRACT: AF19 628 4088

PROJ: SR14987

MONITOR: ESD ,

TDR-65-168

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-432 098.

DESCRIPTORS: (*PROGRAMMING (COMPUTERS), DESIGN),
(*PHOTOGRAPHIC TECHNIQUES, COMPUTERS),
(*MANAGEMENT ENGINEERING, COMPUTERS), DATA
PROCESSING SYSTEM, DATA STORAGE SYSTEMS,
INSTRUCTION MANUALS, DOCUMENTATION, REPORTS,
AUTOMATION, PRINTING, PHOTOGRAPHIC
TECHNIQUES

(U)

IDENTIFIERS: ON-LINE SYSTEMS, FLOW CHARTS,
INFORMATION MANAGEMENT SUBSYSTEM, CDC-160-A
COMPUTER, PUBLICATION

(U)

THIS REPORT PRESENTS RESULTS OF A RESEARCH AND
EXPERIMENTAL PROJECT IN COMPUTER-AUGMENTED
INFORMATION MANAGEMENT. THE REPORT IS, IN ITSELF A
PRODUCT OF THE PROJECT: WITH THE EXCEPTION OF
FRONT MATTER, THE ENTIRE REPORT WAS COMPOSED,
EDITED, AND PRODUCED WITH ON-LINE AND OFF-LINE
COMPUTER AIDS. FOR THIS PROJECT, THE TECHNIQUES OF
COMPUTER AIDS WERE APPLIED TO TWO AREAS: TASK
MONITORING AND PROGRAM DESIGN. THE PROCESSES AND
TECHNIQUES DEVELOPED OFFER A PROMISING BEGINNING TO
COMPUTER-AIDED PROGRAMMING DESIGN EXTENDING FROM
INITIAL SPECIFICATION TO FINAL DEBUGGING IN A UNIFIED
DESIGN RECORD THAT GROWS AND EVOLVES TO COMPLETE
FINAL DOCUMENTATION. THE PROCESSES AND TECHNIQUES
ALSO OFFER PROMISE IN INCREASING THE PRODUCTIVITY OF
INDIVIDUALS AND GROUPS OF PROGRAMMERS. FUTURE WORK
ENVISIONED FOR INFORMATION-MANAGEMENT SYSTEMS SUCH AS
THAT USED IN THIS STUDY INCLUDE PROGRAM DESIGN
RECORDS, EXTERNAL REFERENCE DOCUMENTATION, AND USER
REFERENCE MANUALS. AS AN APPENDIX, THERE IS
ATTACHED 'USER'S GUIDE: MAN-MACHINE
INFORMATION SYSTEM,' REVISED JUNE 1965.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-622 766

RAND CORP SANTA MONICA CALIF

INCREASED OPERATIONAL CAPABILITY THROUGH LOGISTICS
ANALYSIS, (U)

SEP 65 ZIP GEISLER, MURRAY A. ;

BELL, CHAUNCEY F., JR. ;

REPT. NO. P-3233

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TEXT OF BRIEFING PREPARED FOR THE
WORLD WIDE MATERIEL CONFERENCE AT ORLANDO AFB,
FLORIDA, OCT 5-7, 1965.

DESCRIPTORS: (*LOGISTICS, ANALYSIS), (*AIR
FORCE OPERATIONS, OPTIMIZATION), INVENTORY
CONTROL, SYSTEMS ENGINEERING, SIMULATION,
MANAGEMENT ENGINEERING, COSTS, INFORMATION
RETRIEVAL, MAINTENANCE, ARMED FORCES SUPPLIES (U)

JOINT AIR FORCE-RAND WORK IS REPORTED THAT IS
DIRECTED TOWARD INCREASING AF OPERATIONAL
CAPABILITY THROUGH LOGISTICS ANALYSIS. A PLEA IS
MADE FOR MODIFYING THE CURRENT INFORMATION COLLECTION
SYSTEM SO AS TO CAPTURE FUNDAMENTAL DATA THAT ARE
BEING LOST. AS AN EXAMPLE, THERE IS CITED THE
RETURN OF SPECIFICALLY CONFIGURED AIRCRAFT FROM A
SPECIFIC MISSION WITH ITS AIRCRAFT. THE CHARGE IS
MADE THAT NOT ENOUGH INFORMATION IS OBTAINED FROM THE
PILOT, THE MECHANIC OF THE GROUND CREW, AND THE SHOP
TECHNICIAN. ANOTHER ANALYSIS IS THAT CONCERNED
WITH A PARTICULAR SYSTEM ON F-105 AIRCRAFT WHERE
THERE ARE COLLECTED THE NUMBER OF SORTIES IN EACH OF
A NUMBER OF SAMPLES, THE NUMBER OF WRITE-UPS ON THE
SYSTEM AS A RESULT OF THE SORTIES, THE MEAN OBTAINED
BY DIVIDING THE NUMBER OF WRITE-UPS BY THE NUMBER OF
SORTIES, AND THE DEGREE OF STATISTICAL VARIANCE FROM
THE MEAN. THE ANALYSIS HIGHLIGHTS THE PROBLEM OF
TRYING TO WORK WITH AVERAGES PROVIDED IN MOST SUMMARY
REPORTS RATHER THAN WITH DETAILED INFORMATION FROM A
DEBRIEFING FORM THAT IDENTIFIES THE KIND OF MISSIONS.
OTHER EXAMPLES OF ANALYSIS ARE GIVEN THAT ARE
REGARDED ESSENTIAL FOR MANAGEMENT; COSTS FOR GETTING
THE ADDITIONAL DATA ARE CALLED VERY SMALL. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD#623 230

DEPARTMENT OF DEFENSE WASHINGTON D C
LOGISTICS RESEARCH CONFERENCE, VOLUME 11-6.
65 106P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED FOR PRESENTATION TO PANEL
ON LOGISTICS INFORMATION (PANEL 6) AT DEPT. OF
DEFENSE LOGISTICS RESEARCH CONFERENCE, AIRLIE
CONFERENCE CENTER, WARRENTON, VA., 26-28 MAY 65.
AVAILABLE COPY WILL NOT PERMIT FULLY LEGIBLE REPRODUCTION.
REPRODUCTION WILL BE MADE IF REQUESTED BY USERS OF DDC.
COPY IS AVAILABLE FOR PUBLIC SALE.

DESCRIPTORS: (•LOGISTICS, SYMPOSIA), COMMAND •
CONTROL SYSTEMS, MILITARY STRATEGY, MANAGEMENT
CONTROL SYSTEMS, INVENTORY CONTROL, MANAGEMENT
PLANNING, DECISION MAKING, SYSTEMS ENGINEERING,
COMPUTERS, MAINTENANCE, DEPARTMENT OF DEFENSE,
ARMED FORCES PROCUREMENT, GOVERNMENT PROCUREMENT,
INFORMATION RETRIEVAL, DATA PROCESSING SYSTEMS

(U)

CONTENTS: COMMAND INFORMATION REQUIREMENTS;
REMARKS ON THE ORDERING OF INFORMATION; NATURE
AND IMPORTANCE OF CLASSIFICATION RESEARCH IN
LOGISTICS INFORMATION SYSTEMS; RESEARCH IN THE
MANAGEMENT OF INFORMATION AND DATA SYSTEMS;
OPERATIONAL APPROACH TO LOGISTICS INFORMATION
SYSTEMS; INFORMATION PROBLEMS IN GOVERNMENT-
INDUSTRIAL LOGISTICS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-623 234

DEPARTMENT OF DEFENSE WASHINGTON D C
LOGISTICS RESEARCH CONFERENCE HELD AT THE AIRLIE
CONFERENCE CENTER, WARRENTON, VIRGINIA, 26-28 MAY
1965.

DESCRIPTIVE NOTE: ABSTRACTS.

65 118P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LOGISTICS, SYMPOSIA), DEPARTMENT
OF DEFENSE, UNITED STATES GOVERNMENT,
GOVERNMENT PROCUREMENT, FEDERAL BUDGETS, ARMED
FORCES PROCUREMENT, MANAGEMENT PLANNING, DECISION
MAKING, OPERATIONS RESEARCH, COSTS,
EFFECTIVENESS, MAINTENANCE, ECONOMICS,
MATHEMATICAL MODELS, INDUSTRIAL PRODUCTION, DATA
PROCESSING SYSTEMS, INFORMATION RETRIEVAL,
PERSONNEL MANAGEMENT, ABSTRACTING

(U)

IDENTIFIERS: COST-EFFECTIVENESS ANALYSIS

(U)

THE VOLUME CONTAINS ABSTRACTS OF THE INDIVIDUAL
PROFESSIONAL PAPERS PREPARED FOR PRESENTATION TO THE
NINE PANELS OF THE DEPARTMENT OF DEFENSE
LOGISTICS RESEARCH CONFERENCE HELD AT THE
AIRLIE CONFERENCE CENTER, WARRENTON,
VIRGINIA, 26-28 MAY 1965. THE PROFESSIONAL
PAPERS HAVE BEEN PUBLISHED IN SEPARATE VOLUMES
PERTAINING TO PANEL SUBJECTS AS FOLLOWS: VOLUME
11-1 LOGISTICS PLANNING ELEMENTS; VOLUME 11-2
PROCUREMENT PRACTICES; VOLUME 11-3
GOVERNMENT/ INDUSTRY DEVELOPMENT AND PRODUCTION;
VOLUME 11-4 PRACTICAL INVENTORY THEORY;
VOLUME 11-5 MAINTENANCE AND REPAIR CONCEPTS;
VOLUME 11-6 LOGISTICS INFORMATION SYSTEMS;
VOLUME 11-7 COST EFFECTIVENESS MODELS AND
EVALUATION; VOLUME 11-8 MEASUREMENT OF
LOGISTICS PERFORMANCE/EFFECTIVENESS; VOLUME 11-9
LOGISTICS SIMULATIONS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-624 658 9/2 5/2

GEORGIA INST OF TECH ATLANTA

A METHOD FOR INVESTIGATING THE BEHAVIOR OF ATTRIBUTES
WHICH BELONG TO INFORMATION STORAGE AND RETRIEVAL
SYSTEMS. (U)

DESCRIPTIVE NOTE: MASTER'S THESIS.

AUG 65 98P HECKMAN, RALPH PAUL I

CONTRACT: AF33(608)-1234

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*INFORMATION THEORY, DATA PROCESSING
SYSTEMS); (*DATA PROCESSING SYSTEMS, INFORMATION
THEORY); INFORMATION RETRIEVAL, DATA STORAGE
SYSTEMS, OPERATIONS RESEARCH, STATISTICAL
ANALYSIS (U)

IDENTIFIERS: THESES (U)

THE PURPOSE OF THIS STUDY IS TO DEVELOP AND APPLY,
BY THE WAY OF ILLUSTRATION, A METHOD FOR
INVESTIGATING THE BEHAVIOR OF ATTRIBUTES WHICH BELONG
TO INFORMATION STORAGE AND RETRIEVAL SYSTEMS.
ALTHOUGH SEVERAL ATTRIBUTES ARE COMMON TO MANY
INFORMATION SYSTEMS, THEIR VALUES DIFFER ACCORDING TO
THE CONDITIONS WHICH ARE PRESENT IN A GIVEN SYSTEM.
AN INVESTIGATION OF THE RELATIONSHIPS BETWEEN THE
CONDITIONS AND THE ATTRIBUTES CAN ENLARGE THE
OPERATIONAL UNDERSTANDING OF THE CONCEPT *INFORMATION
STORAGE AND RETRIEVAL SYSTEM.* AN OPERATIONAL
UNDERSTANDING OF THIS CONCEPT IS NECESSARY IN ORDER
TO DESIGN THESE SYSTEMS BECAUSE IT PROVIDES AN A
PRIORI KNOWLEDGE ABOUT THE PROBABLE STATE THAT A
SYSTEM WILL ASSUME. THIS STATE IS DEFINED AS THE
VALUES WHICH THE ATTRIBUTES WILL POSSESS UNDER
SPECIFIED CONDITIONS, ONCE THE SYSTEM IS IN
OPERATION. (U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-624 730 5/1 5/2
CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
PROPOSED RESEARCH ON MANAGEMENT INFORMATION
SYSTEMS. (U)
DESCRIPTIVE NOTE: MANAGEMENT SCIENCES RESEARCH REPT.,
OCT 65 22P CHURCHILL, N. C. ; KRIEBEL, C. H. ;
STEDRY, A. C. ;
REPT. NO. MSRR-54
CONTRACT: NONR-760(24)
PROJ: NR-047-U49

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•MANAGEMENT ENGINEERING, INFORMATION
RETRIEVAL), (•INFORMATION RETRIEVAL, MANAGEMENT
ENGINEERING), OPERATIONS RESEARCH, DECISION
MAKING, RESEARCH PROGRAM ADMINISTRATION (U)

THE REPORT DISCUSSES MANAGEMENT INFORMATION SYSTEMS
IN CONNECTION WITH THEIR USE IN MANAGERIAL DECISION
MAKING. AREAS ARE EMPHASIZED IN WHICH CURRENT AND
READILY FORESEEABLE DEVELOPMENTS IN COMPUTER
TECHNOLOGY HAVE MADE THE RESEARCH PROBLEMS MORE
APPARENT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-625 417 9/2
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
PROCEEDINGS OF THE SYMPOSIUM ON COMPUTERCENTERED DATA
BASE SYSTEMS (2ND). (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.,
DEC 65 351P BAUM, C. ; GORSUCH, L. ;
REPT. NO. SDC-TM-2624/100/00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
SYMPOSIA), DATA, COMPUTERS, STATE-OF-THE-ART
REVIEWS, COMMAND + CONTROL SYSTEMS,
PROGRAMMING(COMPUTERS), DATA STORAGE SYSTEMS,
HOSPITALS, INFORMATION RETRIEVAL, COMPUTER
STORAGE DEVICES, INPUT-OUTPUT DEVICES, COMPUTER
LOGIC, MANAGEMENT CONTROL SYSTEMS (U)
IDENTIFIERS: ON-LINE SYSTEMS, ECCO PROGRAM,
COLINGO, SHARING(COMPUTERS), LUCID LANGUAGE,
FILESTRUCTURES, DATA BASE SYSTEMS (U)

CONTENTS: TUTORIAL PAPERS; STATE-OF-THE-ART
SURVEY OF DATA BASE SYSTEMS; IMPACT OF HARDWARE
DEVELOPMENTS ON DATA BASE SYSTEMS; COMPUTER-
CENTERED DATA BASE SYSTEMS IN SUPPORT OF HIGH
MILITARY COMMAND. FIVE APPROACHES TO THE SAME DATA
BASE PROBLEM; DESCRIPTION OF THE DATA BASE
PROBLEM; THREE COLINGO-LIKE APPROACHES TO THE
DATA BASE PROBLEM, COLINGO D, COLINGO C-10, AND
ADAM; MARK III FILE MANAGEMENT SYSTEM; ON-LINE
DATA MANAGEMENT SYSTEM FOR THE MASSACHUSETTS
GENERAL HOSPITAL; BEST SYSTEM; AND INTEGRATED
DATA STORE. DESCRIPTION OF SDC DATA BASE SYSTEMS
DEMONSTRATED AT SYMPOSIUM; LUCID; GENERAL PURPOSE
DISPLAY SYSTEM; AND ECCO AND EPIC. REPORTS OF
THE WORK GROUP CHAIRMEN; CRITERIA FOR GOING ON-
LINE; ENTRY AND QUERY LANGUAGE DESIGN; FILE
ORGANIZATION; FILE SHARING AND PROTECTION; THEORY
OF DATA BASE PROBLEM DEFINITION; CRITERIA FOR
EVALUATING DATA MANAGEMENT SYSTEMS; AND RECORDING
FOR ANALYSIS, COSTING, AND CONTROL. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-626 032 5/1 9/2
BALLISTIC SYSTEMS DIV NORTON AFB CALIF
PROCEEDINGS OF AIR FORCE/INDUSTRY DATA MANAGEMENT
SYMPOSIUM, SEPTEMBER 28, 29 AND 30, 1965, HELD AT
BEVERLY HILTON HOTEL, BEVERLY HILLS, CALIFORNIA. (U)
65 336P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA, MANAGEMENT CONTROL SYSTEMS),
(*MANAGEMENT CONTROL SYSTEMS, SYMPOSIA), (*AIR
FORCE, MANAGEMENT CONTROL SYSTEMF), INDUSTRIES,
COSTS, DATA PROCESSING SYSTEMS, DATA STORAGE
SYSTEMS, INFORMATION RETRIEVAL, AIR FORCE
PROCUREMENT (U)
IDENTIFIERS: CONTRACTS (U)

THE OBJECTIVES OF THE AIR FORCE/INDUSTRY
DATA MANAGEMENT SYMPOSIUM WERE: (1) TO RE-
EXAMINE THE OBJECTIVES OF DATA MANAGEMENT SYSTEM;
(2) TO EXPLORE AND EVALUATE THE EFFECTIVENESS OF
DATA MANAGEMENT AND CONTROL; (3) TO DETERMINE AND
RESOLVE EXISTING PROBLEM AREAS; AND (4) TO
INCREASE THE EFFECTIVENESS OF DATA MANAGEMENT. TO
ACCOMPLISH THESE OBJECTIVES, THE DATA MANAGEMENT
SPECTRUM WAS DIVIDED INTO FIVE CATEGORIES: DATA
MANAGEMENT CONCEPTS, CONTRACTOR DATA ACQUISITION,
RIGHTS IN DATA AND WARRANTY COST OF DATA, AND NEW
FRONTIERS OF DATA MANAGEMENT. BASED ON THIS
DIVISION, THE SYMPOSIUM WAS ORGANIZED INTO FIVE
OPERATING PANELS, EACH JOINTLY CHAIRED BY AN AIR
FORCE AND AN INDUSTRY REPRESENTATIVE. EACH
PANEL WAS FURTHER ORGANIZED INTO DETAILED TOPIC AREAS
WITH MEMBERS ASSIGNED TO ANALYZE, STUDY, AND DEVELOP
TENTATIVE FINDINGS FOR CONSIDERATION AT THE PANEL
SESSIONS. THESE FINDINGS WERE PRESENTED AT THE
SYMPOSIUM PANEL MEETINGS. THE ENSUING PANEL
DISCUSSIONS PROVIDED A BASIS FOR FORMULATING
RECOMMENDED SOLUTIONS TO THE VARIOUS PROBLEMS. (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-630 151 5/2 9/2

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
INFORMATION MANAGEMENT-A STATE-OF-THE-ART STUDY.
PART I - SYNOPSIS OF ORGANIZATIONS AND RESEARCH
ACTIVITIES. (U)

DESCRIPTIVE NOTE: TECHNICAL MEMO.,
OCT 62 30P BARE, CAROLE E. ;
REPT. NO. SDC-TM-(L)-763/000/01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DOCUMENTATION, STATE-OF-THE-ART
REVIEWS), INFORMATION RETRIEVAL, REPORTS,
SCIENTIFIC ORGANIZATIONS, ABSTRACTS,
PROCESSING, SUBJECT INDEXING, SEARCH THEORY,
SCIENTIFIC RESEARCH, INPUT-OUTPUT DEVICES,
SPECIAL PURPOSE COMPUTERS (U)

INFORMATION RETRIEVAL, WHICH HAS TRADITIONALLY
INCLUDED INDEXING AND ABSTRACTING ACTIVITIES, IS SEEN
AS ONLY ONE OF THE MAJOR FUNCTIONS IN AN INFORMATION
SYSTEM. A MORE BROADLY CONCEPTUALIZED INFORMATION
SYSTEM SHOULD PROVIDE CONTROL OVER MORE VARIED AND
COMPLEX FUNCTIONS, SUCH AS THOSE INVOLVED IN PROBLEM-
SOLVING. THEREFORE, RESEARCH ACTIVITIES IN THIS
AREA, WHICH HAVE UP TO NOW BEEN LABELLED AS
INFORMATION RETRIEVAL STUDIES, WILL BE DISCUSSED IN
THIS REPORT FROM THE MORE COMPREHENSIVE VIEWPOINT OF
AN 'INFORMATION MANAGEMENT' SYSTEM. A STATE-OF-
THE-ART STUDY IN THE INFORMATION MANAGEMENT AREA WAS
UNDERTAKEN SINCE PARTICIPATION IN THIS RAPIDLY
GROWING FIELD SHOULD BE BASED ON SOUND DECISIONS
REGARDING THE CONTENT AREAS AS WELL AS THE METHODS
AND TECHNIQUES WHICH ARE TO BE APPLIED. IN THIS
FIRST REPORT, A SYNOPSIS OF RESEARCH ORGANIZATIONS
AND THEIR SPONSORS IS PRESENTED. IN ADDITION,
SEVERAL CLASSIFICATION SYSTEMS OF THE VARIOUS
FUNCTIONS OF AN INFORMATION MANAGEMENT SYSTEM ARE
DESCRIBED AND EVALUATED. TRENDS WHICH INDICATE THE
DIRECTION IN WHICH THE FIELD IS MOVING ARE OUTLINED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-630 152 5/2 9/2
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
INFORMATION RETRIEVAL.
DESCRIPTIVE NOTE: TECHNOLOGY SERIES.
66 23P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*INFORMATION RETRIEVAL, HISTORY),
DATA PROCESSING SYSTEMS, DATA STORAGE SYSTEMS,
COMPUTERS, SPECIAL PURPOSE COMPUTERS

(U)

INFORMATION MANAGEMENT IS A TERM THAT IS
PREFERRED TO *INFORMATION RETRIEVAL* BY SYSTEM
DEVELOPMENT CORPORATION. INFORMATION MANAGEMENT
IS DEFINED AS THE ESTABLISHMENT AND UTILIZATION OF
EFFECTIVE PROCEDURES FOR CONTROLLING THE GENERATION,
PROCESSING, FLOW, AND USE OF INFORMATION. THIS
TREATISE ON INFORMATION RETRIEVAL IS DIVIDED INTO 6
PARTS (1) THE INFORMATION PROBLEM. (2)
HISTORICAL DEVELOPMENT: DOCUMENTATION, BUSINESS
SYSTEMS, MILITARY SYSTEMS. (3) MILITARY
APPLICATIONS: SAC CONTROL SYSTEM, INTELLIGENCE
SYSTEMS, DATA BASE MANAGEMENT. (4) NONMILITARY
APPLICATIONS: MEDICINE, EDUCATION, METROPOLITAN
GOVERNMENT, LAW ENFORCEMENT, LAW, SCIENTIFIC AND
TECHNICAL INFORMATION, IN-HOUSE DEVELOPMENT AND USE.
(5) RESEARCH: CLASSIFICATION AND INDEXING
PROCEDURES, LINGUISTICS AND COMMUNICATION ANALYSIS,
FACT RETRIEVAL, NATURAL LANGUAGE PROCESSING.
(6) FUTURE OF INFORMATION MANAGEMENT.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-631 505 5/9 9/2
NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF
PROGRAM PROFILE: MANUAL FOR USE OF COMPUTER IN
ENLISTED CLASSIFICATION. (U)
DESCRIPTIVE NOTE: TECHNICAL BULLETIN,
APR 66 27P WOOD, BRUCE R. I
SCHUSTER, CARL; MARTIN, JOHN;
REPT. NO. STB-66-27,
PROJ: PFD16050201.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PROGRAMMING (COMPUTERS), PERSONNEL
MANAGEMENT), (*PERSONNEL MANAGEMENT, DATA
PROCESSING SYSTEMS), (*NAVAL PERSONNEL,
SELECTION), CLASSIFICATION, EDUCATION,
INSTRUCTION MANUALS, JOB ANALYSIS,
PSYCHOMETRICS (U)
IDENTIFIERS: COMPASS PROJECT, PROFILE PROGRAM (U)

THE REPORT DESCRIBES THE OPERATION AND USE OF
PROGRAM PROFILE, THE FIRST PART OF PROJECT
COMPASS, A COMPUTER ASSISTED CLASSIFICATION AND
ASSIGNMENT SYSTEM. PROGRAM PROFILE, A FORTRAN
COMPUTER PROGRAM, CONSIDERS TEST SCORES, PROCUREMENT
CATEGORIES, AND SCHOOL REQUIREMENTS IN DETERMINING A
RECRUIT'S ELIGIBILITY FOR THE VARIOUS NAVY SERVICE
SCHOOLS. IT THEN GENERATES A LIST OF THESE SCHOOLS
WITH APPROPRIATE ACCOMPANYING INFORMATION, TO BE MADE
AVAILABLE TO THE INTERVIEWER TO HELP IN DETERMINING
WHAT SCHOOL ASSIGNMENT THE RECRUIT WILL ULTIMATELY
RECEIVE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-632 462 5/9
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
ANALYSIS OF INSTRUCTIONAL SYSTEMS. (U)
DESCRIPTIVE NOTE: FINAL REPT. (TECHNICAL MEMO.):
APR 66 267P COGSWELL, JOHN F. ;
BRATTEN, J. E. ; EGBERT, R. E. ; ESTAVAN, D. P. ;
YETT, F. A. ;
REPT. NO. TM-1493/201/00,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON NEW SOLUTIONS TO
IMPLEMENTING INSTRUCTIONAL MEDIA THROUGH ANALYSIS
AND SIMULATION OF SCHOOL ORGANIZATION. SEE ALSO
AD-427 752, AD-436 528, AD-620 663, PB-167 675,
PB-169 043.

DESCRIPTORS: (*EDUCATION, *TEACHING MACHINES),
(*PROGRAMMED INSTRUCTION, ANALYSIS), COMPUTERS,
STUDENTS, MODELS(SIMULATIONS),
PROGRAMMING(COMPUTERS), DATA PROCESSING SYSTEMS,
AUTOMATION, SCHEDULING, SIMULATION, LEARNING,
SYSTEMS ENGINEERING (U)
IDENTIFIERS: SCHOOLS, SYSTEMS ANALYSIS, EDSIM (U)

THE MAJOR FINDINGS INCLUDE THE IDENTIFICATION OF
TWO WAYS FOR USING SYSTEM ANALYSIS IN EDUCATION, THE
SPECIFICATION OF PROCEDURES FOR CONDUCTING ANALYSES
OF INSTRUCTIONAL SYSTEMS, AND IMPLICATIONS FOR SCHOOL
ORGANIZATION. ALTHOUGH THERE IS A DEFINITE TREND IN
SECONDARY EDUCATION TO SEARCH OUT AND INTRODUCE WAYS
TO ALTER SCHOOL ORGANIZATIONS SO THAT THE INDIVIDUAL
DIFFERENCES AMONG STUDENTS CAN BE ACCOMMODATED, NO
SCHOOL HAS YET EVOLVED AN ORGANIZATION TO
SUCCESSFULLY MEET THIS OBJECTIVE. SCHOOLS STRIVING
IN THIS DIRECTION ARE PRESENTLY BLOCKED BECAUSE THEY
LACK TWO MAJOR RESOURCES: (1) ADEQUATE SELF-
STUDY INSTRUCTIONAL MATERIALS, AND (2) ADEQUATE
SYSTEMS TO PROVIDE INFORMATION TO INSTRUCTORS,
COUNSELORS, AND ADMINISTRATORS ABOUT THE STATUS OF
STUDENTS AS INDIVIDUALS.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-632 587 5/2 9/2
MITRE CORP BEDFORD MASS
PROCEEDINGS OF THE CONGRESS ON THE INFORMATION SYSTEM
SCIENCES (20). (U)
MAR 66 508P
REPT. NO.
CONTRACT: AF 19(628)-2390,
MONITOR: ESD , TR-65-366

UNCLASSIFIED REPORT

DISTRIBUTION: SPARTAN BOOKS, INC. 1250
CONNECTICUT AVENUE N.W. WASHINGTON, D. C.
\$23.75.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
SYMPOSIA), COMMAND + CONTROL SYSTEMS,
PROGRAMMING LANGUAGES, INFORMATION RETRIEVAL,
MANAGEMENT PLANNING, DESIGN, TECHNICAL
INFORMATION CENTERS, MAN-MACHINE SYSTEMS,
DECISION MAKING, GRAPHICS, SUBJECT INDEXING,
COMPUTERS, COSTS, FILMS, BEHAVIOR,
SCIENTIFIC PERSONNEL, ENGINEERING PERSONNEL,
ADAPTIVE SYSTEMS, LINGUISTICS,
TRANSFORMATIONAL GRAMMARS (U)

IDENTIFIERS: ON-LINE SYSTEMS, INFORMATION
SCIENCES, TIME SHARING (COMPUTERS), INFORMATION
SYSTEMS, COLINGO, BAYES' THEOREM, SELF-ORGANIZING
SYSTEMS, MAC PROJECT, FILE STRUCTURES (U)

THE PAPERS FORMED THE BASIS FOR DISCUSSION IN
SIXTEEN TECHNICAL SESSIONS AT THE SECOND CONGRESS
ON THE INFORMATION SYSTEM SCIENCES (NOV
1964). THE CONGRESSES, NOW ESTABLISHED AS
BIENNIAL EVENTS, WERE FORMED TO INCREASE
COMMUNICATION AMONG SCIENTISTS, ENGINEERS, AND
MILITARY PERSONNEL IN THE TECHNOLOGY OF INFORMATION
SYSTEMS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-632 741 5/9 9/2
NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF
PROGRAM SCREEN: MANUAL FOR USE OF COMPUTER IN
ENLISTED CLASSIFICATION PROJECT COMPASS, PART II. (U)
DESCRIPTIVE NOTE: TECHNICAL BULL.,
APR 66 27P WOOD, BRUCE R. ; SCHUSTER, CARL
C. ; MARTIN, JOHN D. ;
REPT. NO. STB-66-29;
PROJ: PF016050201;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-631 505.

DESCRIPTORS: (*PROGRAMMING(COMPUTERS), PERSONNEL
MANAGEMENT), (*PERSONNEL MANAGEMENT, DATA
PROCESSING SYSTEMS), (*NAVAL PERSONNEL,
SELECTION), CLASSIFICATION, EDUCATION,
INSTRUCTION MANUALS, JOB ANALYSIS,
PSYCHOMETRICS, ERRORS (U)
IDENTIFIERS: SCREEN PROGRAM, COMPASS
PROJECT, PROFILE PROGRAM (U)

THIS REPORT DESCRIBES THE OPERATION AND USE OF
PROGRAM SCREEN, THE SECOND PART OF PROJECT
COMPASS, A COMPUTER ASSISTED CLASSIFICATION AND
ASSIGNMENT SYSTEM. PROGRAM SCREEN, A FORTRAN
COMPUTER PROGRAM, REVIEWS A NAVY RECRUITS
ELIGIBILITY FOR ENTRANCE INTO THE VARIOUS NAVAL
SCHOOLS FOR WHICH HE MAY HAVE BEEN RECOMMENDED BY AN
ENLISTED CLASSIFICATION INTERVIEWER. IT THEN
PRINTS OUT ALL ERRORS IN SUCH RECOMMENDATIONS, THUS
ALLOWING CHANGES TO BE MADE BEFORE THE ASSIGNMENT
PROCESS ACTUALLY TAKES PLACE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-634 310 5/1 12/2 9/2
CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION
OPERATIONS RESEARCH IN THE DESIGN OF MANAGEMENT
INFORMATION SYSTEMS. (U)
DESCRIPTIVE NOTE: MANAGEMENT SCIENCE RESEARCH REPT.,
APR 66 28P KRIEBEL, CHARLES H. I
REPT. NO. MSRR-73,
CONTRACT: NONR-760(24),
PROJ: NR-047-048,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED FOR PRESENTATION AT THE
OPERATIONS RESEARCH SYMPOSIUM, TECHNICAL
ASSOCIATION OF THE PULP AND PAPER INDUSTRY,
PHILADELPHIA, PA., 28-30-MAR 66.

DESCRIPTORS: (*OPERATIONS RESEARCH, *MANAGEMENT
ENGINEERING), (*INFORMATION THEORY, MANAGEMENT
ENGINEERING), DATA PROCESSING SYSTEMS,
MATHEMATICAL MODELS, DESIGN, DECISION MAKING (U)
IDENTIFIERS: INFORMATION SYSTEMS (U)

THE DESIGN OF MANAGEMENT INFORMATION SYSTEMS IS
CONCERNED WITH THE IDENTIFICATION AND DETAILED
SPECIFICATION OF THE INFORMATION AND DATA PROCESSING
RESOURCES REQUIRED BY AN ORGANIZATION FOR DECISION-
MAKING AND CONTROL. THIS PAPER SURVEYS A
REPRESENTATIVE SELECTION OF THE LITERATURE ON
MANAGEMENT INFORMATION SYSTEMS IN WHICH MATHEMATICAL
MODELS ARE EMPLOYED AS THE BASIS FOR ANALYSIS AND
SYSTEMS DESIGN. OPERATIONS RESEARCH PROVIDES A
NATURAL FRAMEWORK FOR THE SPECIFICATION OF MANAGEMENT
DECISION-MAKING AND CONTROL PROCESSES IN INFORMATION
SYSTEM DESIGNS. TO REALIZE THE FULL ECONOMIC
POTENTIAL OF ADVANCED DATA PROCESSING TECHNIQUES IN
MANAGEMENT INFORMATION SYSTEMS TODAY, THE CLOSE
COORDINATION OF OPERATIONS RESEARCH AND DATA SYSTEMS
ACTIVITIES HAS BECOME A PRACTICAL NECESSITY FOR THE
MODERN BUSINESS FIRM. (AUTHOR) (U)

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/BPVO1

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-634 371 9/2 5/2 5/1

HITRE CORP BEDFORD MASS

AESOP: A GENERAL PURPOSE APPROACH TO REAL-TIME,
DIRECT ACCESS MANAGEMENT INFORMATION SYSTEMS, (U)

JUN 66 38P SPIEGEL, J. ; SUMMERS, J. K. ;

BENNETT, E. M. ;

REPT. NO. MTP-33,

CONTRACT: AF 19(628)-5165,

PROJ: AF-5050,

MONITOR: ESD TR-66-289

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-632 320

DESCRIPTORS: (*INFORMATION RETRIEVAL, *MANAGEMENT
PLANNING), (*DATA PROCESSING SYSTEMS, INFORMATION
RETRIEVAL), TELEVISION DISPLAY SYSTEMS, COMMAND &
CONTROL SYSTEMS, LIGHT COMMUNICATION SYSTEMS,
CATHODE RAY TUBES, COMPUTERS, REAL TIME,
PROGRAMMING (COMPUTERS), MILITARY
REQUIREMENTS (U)

IDENTIFIERS: AESOP, ON-LINE SYSTEMS, LIST
PROCESSING, LIGHT PENS, COMPUTER CONSOLES (U)

AESOP, A LABORATORY-BASED PROTOTYPE OF A GENERAL
PURPOSE, ON-LINE, VISUALLY-ORIENTED INFORMATION
SYSTEM, IS USED TO INVESTIGATE WAYS OF HANDLING MANY
DIFFERENT TYPES AND LEVELS OF COMMAND AND MANAGEMENT
PROBLEMS SPANNING ORGANIZATIONAL LEVELS FROM THE
EXECUTIVE SUITE DOWN THROUGH THE STAFF AND OPERATIONS
ANALYSTS TO THE ACTUAL SYSTEM DESIGNERS AND
PROGRAMMERS. IN PARTICULAR, IT DEALS WITH THOSE
ORGANIZATIONAL ACTIVITIES THAT REQUIRE HIGHLY
FLEXIBLE, DIRECT-ACCESS CAPABILITIES. THE SYSTEM IS
CONFIGURED FOR EASY USE BY THE INEXPERIENCED AS WELL
AS BY THE SOPHISTICATED, AND UTILIZES A VARIETY OF
USER STATION DEVICES TO FACILITATE SUCH FLEXIBILITY,
INCLUDING A CATHODE-RAY-TUBE DISPLAY, A LIGHTGUN, A
TYPEWRITER, AND ASSOCIATED PUSH-BUTTONS. AT EACH
STATION, IT IS CAPABLE OF GENERATING, EDITING, AND
FORMATTING INFORMATION ON-LINE, AS WELL AS BUILDING,
EXECUTING, AND DEBUGGING ON-LINE THE ANALYTIC AND
MATHEMATICAL PROCEDURES AND ALGORITHMS OF BOTH THE
USERS AND THE SYSTEM ITSELF, DEPENDING UPON THE
ORGANIZATIONAL AREA OR LEVEL OF THE USER. ALTHOUGH
THE BASIC PROTOTYPE SYSTEM WAS DEVELOPED FOR USE IN
MILITARY COMMAND AND MANAGEMENT PLANNING AND
INFORMATION SYSTEMS, ITS PHILOSOPHY AND CONCEPTS ARE
APPLICABLE TO INDUSTRIAL AND ACADEMIC ORGANIZATIONS.
(AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-635 132 S/2 S/9
HUMAN RESOURCES RESEARCH OFFICE GEORGE WASHINGTON UNIV
ALEXANDRIA VA
PROJECTED MANPOWER NEEDS, AND PROJECTED TRAINING
REQUIREMENTS FOR OPERATORS AND USERS OF FUTURE STINFO
SYSTEMS. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.
JUN 66 40P FINK, C. DENNIS ;
LEEDY, HERBERT B. ; HAYES, JOHN F. ;
REPT. NO. HUMKRO-TR-66-7
CONTRACT: DA-44-188-ARO-2,
PROJ: DA-2J024701A712-01,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TECHNICAL INFORMATION CENTERS,
*PERSONNEL MANAGEMENT), DEPARTMENT OF DEFENSE,
ARMY, INFORMATION RETRIEVAL, TRAINING,
PERSONNEL, MANPOWER STUDIES, DOCUMENTATION,
SUPERVISORY PERSONNEL, OPERATORS(PERSONNEL),
HANDBOOKS, PERIODICALS, TRAINING DEVICES,
SPECIFICATIONS, LIBRARIES (U)
IDENTIFIERS: STINFO (U)

TRAINING PROBLEMS WHICH MIGHT ARISE DUE TO
ESTABLISHMENT OF NEW DEPARTMENT OF THE ARMY
SCIENTIFIC AND TECHNICAL INFORMATION (DA
STINFO) SYSTEMS WERE EXAMINED WITH RESPECT TO
PROJECTED MANPOWER REQUIREMENTS, PERSONNEL SUPPLY,
AND TRAINING REQUIREMENTS. IT WAS CONCLUDED THAT
(A) FUTURE NEEDS FOR SYSTEM DESIGNERS CAN BE MET
THROUGH THE USE OF CONTRACTOR AND SENIOR DA STINFO
PERSONNEL; (B) FUTURE NEEDS FOR ADMINISTRATORS
AND OPERATORS OF STINFO CENTERS AND SYSTEMS WILL
NOT BE GREAT, PROVIDED THAT THE DA CAN RETAIN THOSE
PERSONS NOW IN THE DA STINFO SYSTEM; (C)
TRAINING OF STINFO SYSTEM ADMINISTRATORS AND
OPERATORS CAN BE IMPROVED, AND SUGGESTIONS WERE MADE
REGARDING THE USE OF HANDBOOKS, JOB AIDS, AND MONTHLY
PUBLICATIONS; (D) TRAINING OF ADMINISTRATORS AND
OPERATORS FOR NEW STINFO SYSTEMS SHOULD AWAIT THE
DEVELOPMENT OF FAIRLY PRECISE SPECIFICATIONS FOR
THESE SYSTEMS; AND (E) THE NEED TO TRAIN AND/OR
FAMILIARIZE *USERS OF STINFO SYSTEMS IS A CRUCIAL
PROBLEM WHICH NEEDS IMMEDIATE ATTENTION. USER
TRAINING PROCEDURES AND MATERIALS, TO INCLUDE THE
DEVELOPMENT OF USER HANDBOOKS AND JOB AIDS, ARE
DISCUSSED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-636 212 5/9 9/2
NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF
PROGRAM GENDET: MANUAL FOR USE OF COMPUTER IN
ENLISTED CLASSIFICATION PROJECT COMPASS, PART IV. (U)
DESCRIPTIVE NOTE: TECHNICAL BULLETIN.
MAY 66 39P WOOD, BRUCE R. ISCHUSTER, CARL
C. ; MARTIN, JOHN D. ;
REPT. NO. ST8-66-31,
PROJ: PFO16050201,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-632 741.

DESCRIPTORS: (*NAVAL PERSONNEL, PERSONNEL
MANAGEMENT), (*PERSONNEL MANAGEMENT,
*PROGRAMMING(COMPUTERS)), SELECTION,
CLASSIFICATION, RECRUITING, DATA PROCESSING
SYSTEMS, EDUCATION, JOB ANALYSIS (U)
IDENTIFIERS: COMPASS PROJECT, GENDET PROGRAM (U)

THE REPORT DESCRIBES THE OPERATION AND USE OF
PROGRAM GENDET, THE FOURTH PART OF PROJECT
COMPASS, A COMPUTER ASSISTED CLASSIFICATION
AND ASSIGNMENT SYSTEM. PROGRAM GENDET
SELECTS AND ASSIGNS GRADUATION RATES AND NAVAL
ENLISTED CLASSIFICATION CODES TO RECRUITS.
THESE RECRUITS WERE RECOMMENDED FOR FLEET
ASSIGNMENTS OR WERE RECOMMENDED FOR A NAVAL SCHOOL,
BUT DUE TO QUOTA LIMITATIONS, WERE UNABLE TO BE
SELECTED FOR CLASS 'A' SCHOOL TRAINING.
(AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-638 240 S/1
RAND CORP SANTA MONICA CALIF
THE ROLE OF THE MILITARY COMPTROLLER IN DEFENSE
MANAGEMENT.
JUN 61 11P NOVICK, DAVID ;
REPT. NO. P-2336.

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE AMERICAN SOCIETY
OF MILITARY COMPTROLLERS, JUNE 1, 1961, WASHINGTON,
D. C.

DESCRIPTORS: (*MANAGEMENT ENGINEERING, *DEPARTMENT
OF DEFENSE), (*ARMED FORCES BUDGETS, MANAGEMENT
ENGINEERING), LOGISTICS, DECISION MAKING,
DOCUMENTATION

(U)

THE COMPTROLLER'S RESPONSIBILITY IS TO SEE TO IT
THAT THOSE WHO PLAN AND EXECUTE DECISIONS HAVE THE
INFORMATION NECESSARY TO THEIR JOBS. HIS
RESPONSIBILITY BEGINS AND ENDS WITH THE DESIGN AND
MAINTENANCE OF THE INFORMATION SYSTEM BUILT AROUND
THIS PROGRAM CONCEPT. THE SECRETARY OF
DEFENSE, JOINT CHIEFS, DEPARTMENT
SECRETARIES, AND SERVICE CHIEFS USE THE
INFORMATION TO DEVELOP SOUND PLANS, ASSURE THE MEANS
FOR INTEGRATED EXECUTION, AND PROVIDE FOR APPROPRIATE
REVISION WHEN NECESSARY.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-639 601 15/5 5/1
RAND CORP SANTA MONICA CALIF
INTEGRATING BASE MAINTENANCE MANAGEMENT BY UNIFYING
ITS INFORMATION SYSTEMS IN MANUAL AND COMPUTER-
ASSISTED ENVIRONMENTS. (U)
JUN 66 71P COHEN, I. K.; DENARDO, E. V. I
KIVIAT, P. J. ;
REPT. NO. RM-4849-FR,
CONTRACT: AF 49(638)-1700,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MILITARY FACILITIES, MAINTENANCE),
(*MAINTENANCE, *MANAGEMENT CONTROL SYSTEMS),
(*LOGISTICS, INVENTORY CONTROL), COMPUTERS, AIR
FORCE OPERATIONS, REAL TIME (U)
IDENTIFIERS: INFORMATION SYSTEMS (U)

SUGGESTIONS FOR IMPROVING MAINTENANCE MANAGEMENT BY
UNIFYING THE INFORMATION SYSTEM AND BY INTEGRATING
THE MANY FUNCTIONS OF THE TEAM. THE SUGGESTED
INNOVATIONS ARE: (1) INTEGRATION OF SEVERAL
MANUAL DATA ACQUISITION SYSTEMS AROUND THE ON-GOING
CONTROL OF FLIGHT-LINE MAINTENANCE; (2) THE
EXTENSION OF THIS INTEGRATION TO ALLIED MAINTENANCE
FUNCTIONS; (3) USE OF A COMPUTER TO GENERATE
DOCUMENTS FOR THE MANAGEMENT OF PREPLANNED
ACTIVITIES; (4) INTEGRATION OF OTHER
MAINTENANCE FUNCTIONS WITH NO. (3); AND (5)
FULL USE OF AN ON-LINE COMPUTER FOR FURTHER
IMPROVEMENT OF THE REAL-TIME FUNCTION AND
COORDINATION OF SEVERAL MAINTENANCE MANAGEMENT
FUNCTIONS. THESE STEPS ARE TO BE VIEWED AS A
GENERAL GUIDE RATHER THAN AS A RIGID SEQUENCE OF
IMPLEMENTATION. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-640 811 5/2

AIR FORCE FLIGHT TEST CENTER EDWARDS AFB CALIF
A PROPOSED ORGANIZATION AND SYSTEM FOR HANDLING AND
MANAGING AIR FORCE IN-HOUSE GENERATED TEST AND
EVALUATION TECHNICAL DATA AND INFORMATION. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

SEP 66 104P LEMMON, GENE C. ;
REPT. NO. FTC-TR-66-26,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•DOCUMENTATION, MANAGEMENT CONTROL
SYSTEMS), AIR FORCE, INFORMATION RETRIEVAL,
DATA STORAGE SYSTEMS, HANDLING, MANAGEMENT
PLANNING, DECISION MAKING, COMMUNICATION SYSTEMS,
MAN-MACHINE SYSTEMS, INPUT-OUTPUT DEVICES,
COSTS, REPRODUCTION, PROGRAMMING (COMPUTERS),
QUALITY CONTROL (U)

THE STUDY WAS UNDERTAKEN TO DEVELOP AN INTEGRATED
AND SYSTEMIC APPROACH TO THE MANAGEMENT AND HANDLING
OF TECHNICAL DATA AND INFORMATION GENERATED DURING
AIR FORCE IN-HOUSE TEST AND EVALUATION PROJECTS
AND PROGRAMS. THE ORGANIZATION AND SYSTEM PROPOSED
USES A TEAM MADE UP OF A TECHNICAL EDITOR, TECHNICAL
ILLUSTRATOR, AND AN EDITORIAL TYPIST. MODELS SHOW
HOW THIS TEAM CAN BE INTEGRATED WITH THE IBM
MAGNETIC TAPE SELECTRIC TYPEWRITER (MTST)
SYSTEM TO MORE EFFICIENTLY AND ECONOMICALLY HANDLE
AND MANAGE TECHNICAL DATA AND INFORMATION THROUGH THE
USE OF A CENTRAL-DATA-BANKING TECHNIQUE AND THE
MACHINE'S ABILITY TO RAPIDLY UPDATE AND REPRODUCE
SEVERAL DIFFERENT TYPE FONTS AND TEXTUAL FORMATS
EITHER AS CLEAN DRAFT COPY OR CAMERA-READY COPY.
THE CRITICAL PATH METHOD IS USED TO IDENTIFY
PROJECT OR PROGRAM UNCERTAINTIES, POTENTIAL SLIPPAGES
AND THEIR PORTABLE IMPACT, ROUTINES REQUIRING ACTION
AND DECISIONS, AND AREAS OF ROUTINES WHERE TRADEOFFS
MAY BE MADE TO AID IN MEETING SCHEDULE DATES. THE
PROPOSED SYSTEM HAS THE POTENTIAL OF SAVING 64 CENTS
FOR EVERY PAGE KEYBOARDED FOR INCLUSION IN TEST
PLANS, TECHNICAL LETTERS, PROGRESS REPORTS, AND FINAL
TECHNICAL REPORTS. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-641 267 5/2 9/2
ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS DIRECTORATE
OF COMPUTERS
COMPUTER-CENTERED DATA BASE SYSTEMS, (U)
OCT 66 33P BUCKLES, GLENN A. ;
CARPENTER, STEWART B. ;
MONITOR: ESD TR-66-499

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
*MANAGEMENT ENGINEERING), COMPUTERS, DESIGN, (U)
DATA, SELECTION, INFORMATION RETRIEVAL (U)
IDENTIFIERS: ADAM SYSTEM

THE PAPER PRESENTS A DISCUSSION OF A SPECIFIC
INFORMATION SYSTEM, THE ADVANCED DATA
MANAGEMENT (ADAM) SYSTEM, WHICH WAS ESTABLISHED
TO HELP THE DESIGNERS AND USERS OF LARGE COMPUTER-
CENTERED DATA-BASE SYSTEMS. THE HISTORICAL
BACKGROUND OF INFORMATION SYSTEMS IS INCLUDED TO
PROVIDE A FOUNDATION FOR DISCUSSING THE CONCEPTS AND
TECHNIQUES OF ADAM. AN APPLICATION OF THE ADAM
SYSTEM TO A REAL PROBLEM IS PRESENTED TO ILLUSTRATE
THE USEFULNESS AND PRACTICABILITY OF THE ADAM
DESIGN PHILOSOPHY. THE MAIN POINT WHICH THE
AUTHORS WISH TO ESTABLISH IS THAT COMPUTER-CENTERED
DATA-BASE SYSTEMS AS EXEMPLIFIED BY ADAM PROVIDE A
USEFUL AND MORE ADVANCED PHILOSOPHY CONCERNING DATA-
BASE SYSTEMS DEVELOPMENT THAN CURRENTLY EXISTS.
(AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-642 233 5/1 13/2 5/11 5/9
 5/2 15/5

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SYSTEM ANALYSIS: PROBLEMS, PROGRESS, AND
POTENTIAL.

(U)

DESCRIPTIVE NOTE: PROFESSIONAL PAPER,
OCT 66 12P ROWAN, THOMAS C. I
REPT. NO. SP-2615

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: THIS PAPER APPEARED IN INDUSTRIAL
RESEARCH, AUGUST, 1966.

DESCRIPTORS: (*SYSTEMS ENGINEERING, *MANAGEMENT
ENGINEERING), (*DECISION MAKING, *URBAN
PLANNING), OPERATIONS RESEARCH, DELINQUENCY,
URBAN AREAS, SANITARY ENGINEERING,
TRANSPORTATION, EDUCATION, INFORMATION
RETRIEVAL, MANAGEMENT PLANNING, SOCIOLOGY,
CRIMINOLOGY

(U)

IDENTIFIERS: SYSTEMS ANALYSIS

(U)

THE PAPER DISCUSSES THE APPLICATION OF SYSTEM
ANALYSIS TECHNIQUES TO THE MOUNTING SOCIOECONOMIC
PROBLEMS OF URBAN AREAS. SEVERAL SPECIFIC PROJECTS
ARE DESCRIBED INCLUDING: THE APPLICATIONS IN
MANAGEMENT INFORMATION, CRIME AND DELINQUENCY, WASTE
MANAGEMENT, TRANSPORTATION, EDUCATION, DOCUMENT
HANDLING, URBAN AND REGIONAL AFFAIRS AND LONG-RANGE
PLANNING. SEVERAL OPERATIONAL PROBLEMS ENCOUNTERED
IN THE COURSE OF THE STUDIES ARE REVIEWED.
(AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD#646 845 5/1 5/9 5/2
AIR FORCE FLIGHT DYNAMICS LAB WRIGHT-PATTERSON AFB
OHIO
A BIOGRAPHICAL INFORMATION RETRIEVAL PROGRAM, (U)
66 22P ROBBINS, C. KEITH :

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONNEL MANAGEMENT, *INFORMATION
RETRIEVAL), PROFESSIONAL PERSONNEL, ENGINEERING
PERSONNEL, DATA STORAGE SYSTEMS, DESIGN,
PROGRAMMING (COMPUTERS), MANPOWER (U)

THE REPORT DISCUSSES THE DESIGN OF AN EXPERIMENTAL
INFORMATION RETRIEVAL PROGRAM TO PROVIDE RAPID ACCESS
TO DETAILED BIOGRAPHICAL INFORMATION ON LABORATORY
PERSONNEL. THE CONTINUED OPERATION OF SUCH A
SYSTEM, IT IS HOPED, WILL SIGNIFICANTLY DECREASE THE
ADMINISTRATIVE WORKLOAD OF THE LABORATORY ENGINEERING
PERSONNEL AND ADDITIONALLY WILL PROVIDE MORE ACCURATE
AND TIMELY ANSWERS TO HIGHER ECHELON INQUIRIES.
SAMPLE INFORMATION OUTPUT FORMATS ARE INCLUDED.
{AUTHOR} (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-646 851 5/1 5/2 9/2
AMERICAN UNIV WASHINGTON D C
INCEPTION, DESIGN AND IMPLEMENTATION OF A MANAGEMENT
INFORMATION SYSTEM. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
JUN 67 54P LEWIS, DAVID ALFRED :

UNCLASSIFIED REPORT

DESCRIPTORS: (+MANAGEMENT CONTROL SYSTEMS,
SYSTEMS ENGINEERING), (+DECISION MAKING,
MANAGEMENT PLANNING), INFORMATION RETRIEVAL,
DATA PROCESSING SYSTEMS, DATA STORAGE SYSTEMS,
OPERATIONS RESEARCH, FEEDBACK, MANAGEMENT
ENGINEERING (U)

THE PURPOSE OF THIS PAPER IS TO DEVELOP A UNIFORM
SYSTEMATIC APPROACH TO THE DESIGN AND IMPLEMENTATION
OF A MANAGEMENT INFORMATION SYSTEM. IN RECENT
YEARS THERE HAS BEEN PUBLISHED REAMS OF LITERATURE
ABOUT VARIOUS ASPECTS OF MANAGEMENT INFORMATION
SYSTEMS, AND, SOME SPECIFIC DESIGN CONSIDERATIONS OF
THESE SYSTEMS. HOWEVER, NOWHERE DURING THE COURSE
OF THIS AUTHOR'S RESEARCH COULD THERE BE FOUND A
COMPREHENSIVE GUIDE OR INSTRUCTIVE DOCUMENT DIRECTED
TOWARDS THE DESIGN OF A MANAGEMENT INFORMATION
SYSTEM. TO THIS END - THE CREATION OF SUCH A
DOCUMENT - IS THIS PAPER DEDICATED. THE PROCEDURES
DEVELOPED IN THIS PAPER ARE, AS MOST SIMILAR
PROCEDURES IN GENERAL, DESIGNED TO GUIDE THE MANAGER
AND ANALYST THROUGH ALL PHASES FROM INITIAL INCEPTION
TO SUCCESSFUL IMPLEMENTATION OF A MANAGEMENT
INFORMATION SYSTEM. MANY FACTORS MUST BE
CONSIDERED WHILE APPLYING THIS PROCEDURE, E.G.,
COMPLEXITY AND SCOPE OF THE INFORMATION SYSTEM.
THESE FACTORS ARE DISCUSSED THROUGHOUT THIS PAPER
IN TERMS OF THEIR IMPACT ON EACH PHASE OF THE DESIGN
PROCESS. (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PVO1

AD-646 867 9/2 5/1
PLANNING RESEARCH CORP LOS ANGELES CALIF INFORMATION
SYSTEMS DIV
ON USE OF AIR FORCE ADP EXPERIENCE TO ASSIST AIR
FORCE ADP MANAGEMENT. VOLUME I. SUMMARY,
CONCLUSIONS, AND RECOMMENDATIONS. (U)
DESCRIPTIVE NOTE: FINAL REPT., PHASE 2, 16 FEB-15 DEC
66.
DEC 66 30P GRADWAHL, ALAN J. ;
BECKWITH, GEORGE S. ; WONG, STANTON H. ;
WOOTAN, WOLFORD G. ;
REPT. NO. PRC-R-932-VOL-1
CONTRACT: AF 19(628)-5986
PROJ: AF-7990
MONITOR: ESD TR-66-671-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-646 870 AND AD-646
868.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, AIR
FORCE), HANDBOOKS, INFORMATION RETRIEVAL,
CLASSIFICATION, SUBJECT INDEXING, DATA STORAGE
SYSTEMS, COMPUTERS, COMPUTER PERSONNEL, COMPUTER
PROGRAMS, COSTS, GRAPHICS, FLOW CHARTING,
MANAGEMENT ENGINEERING, COST EFFECTIVENESS (U)

VOLUME I OF THE THREE-VOLUME FINAL REPORT
SUMMARIZES PHASE II OF A THREE-PHASE PROJECT ON
THE USE OF AIR FORCE ADP EXPERIENCE TO
ASSIST AIR FORCE ADP MANAGEMENT. THE
HISTORY OF THE PROJECT IS TRACED AND THE OBJECTIVES,
FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS ARE
SUMMARIZED AND TABULATED. THE CONCLUSIONS ARE AS
FOLLOWS: THAT SUFFICIENT DATA CAN BE COLLECTED TO
PERMIT MACRODESCRIPTION OF AN ADPS; RELATIONSHIPS
DO EXIST BETWEEN WORKLOAD DESCRIPTORS AND COSTS; THE
INFORMATION CAN BE DISTILLED AND ORGANIZED INTO AN
INDEXED ADP EXPERIENCE HANDBOOK; AND, FOR PHASE
III, AN AIR FORCE ADP MANAGEMENT
INFORMATION SYSTEM IS NECESSARY, FEASIBLE, AND
COST EFFECTIVE. THE IMPLEMENTATION OF PHASE III
IS RECOMMENDED. (AUTHOR) (U)

UNCLASSIFIED

/8PVO1

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-646 868 9/2 5/1
PLANNING RESEARCH CORP LOS ANGELES CALIF INFORMATION
SYSTEMS DIV
ON USE OF AIR FORCE ADP EXPERIENCE TO ASSIST AIR
FORCE ADP MANAGEMENT. VOLUME III. CONCEPT AND PLAN. (U)
DESCRIPTIVE NOTE: FINAL REPT., PHASE 2 AND 3, 16 FEB-68
REF ID: A646868
SEC 66 124P GRADWOHL, ALAN J. ;
WOLFORD O. ;
REPT. NO. PRC-R-932-VOL-3
CONTRACT: AF 19(628)-5988
PROJ: AF-7990
MONITOR: ESD TR-66-671-VOL-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-646 867 AND AD-646
870.

DESCRIPTORS: (DATA PROCESSING SYSTEMS, AIR
FORCE), HANDBOOKS, INFORMATION RETRIEVAL,
CLASSIFICATION, SUBJECT INDEXING, DATA STORAGE
SYSTEMS, COMPUTERS, COMPUTER PERSONNEL, COMPUTER
PROGRAMS, COSTS, GRAPHICS, FLOW CHARTING,
MANAGEMENT ENGINEERING, COST EFFECTIVENESS (U)

VOLUME III OF THE THREE-VOLUME FINAL REPORT ON
PHASE II OF A THREE-PHASE PROJECT ON THE USE OF
AIR FORCE ADP EXPERIENCE TO ASSIST AIR
FORCE ADP MANAGEMENT, PRESENTS THE CONCEPT AND
PLAN FOR PHASE III. THE OPERATIONAL CONCEPT FOR
PHASE III INCLUDES REVISED PROCEDURES FOR ADPS
PROPOSAL SUBMISSION, EXPERIENCE REPORTING, AND ASSET
REPORTING TO AN INFORMATION STORAGE AND RETRIEVAL
SYSTEM. THIS SYSTEM IS THE NUCLEUS OF A MANAGEMENT
INFORMATION SYSTEM THAT COULD BE OPERATIONAL BY
JUNE 1968. THE MAJOR BENEFITS WILL ACCRUE FROM
IMPROVED COST EFFECTIVENESS AND QUALITY OF ADP
DEVELOPMENT AND OPERATIONS IN THE AIR FORCE,
FROM COST AND TIME SAVINGS IN LARGE SYSTEM PROGRAMS
THAT INVOLVE ADP. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-646 870 9/2 5/1
PLANNING RESEARCH CORP LOS ANGELES CALIF INFORMATION
SYSTEMS DIV
ON USE OF AIR FORCE ADP EXPERIENCE TO ASSIST AIR
FORCE ADP MANAGEMENT. VOLUME II. ACTIVITIES. (U)
DESCRIPTIVE NOTE: FINAL REPT., PHASE 2, 16 FEB-15 DEC
66,
DEC 66 144P GRADWOHL, ALAN J. ;
BECKWITH, GEORGE S. ; WONG, STANTON H. ;
REPT. NO. PRC-R-932-VOL-2
CONTRACT: AF 19(628)-5988
PROJ: AF-7990
MONITOR: ESD 66-671-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-646 867 AND AD-646
868.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, AIR
FORCE), HANDBOOKS, INFORMATION RETRIEVAL,
CLASSIFICATION, SUBJECT INDEXING, DATA STORAGE
SYSTEMS, COMPUTERS, COMPUTER PERSONNEL, COMPUTER
PROGRAMS, COSTS, GRAPHICS, FLOW CHARTING,
MANAGEMENT ENGINEERING, COST EFFECTIVENESS (U)

VOLUME II OF THE THREE-VOLUME FINAL REPORT ON
PHASE II OF A THREE-PHASE PROJECT ON THE USE OF
AIR FORCE ADP EXPERIENCE TO ASSIST AIR
FORCE ADP MANAGEMENT IS PRESENTED. THE DESIGN
OF THE DATA COLLECTION QUESTIONNAIRE WAS BASED ON THE
ADPS MODEL (A CONCEPT OF A *TOTAL* ADPS) AND
THE WORKLOAD MODEL REPRESENTING ATTRIBUTES OF AN
ADPS. DATA WERE COLLECTED ON A STRATIFIED 18-ADPS
SAMPLE, AND THE STATISTICAL ANALYSIS OF THESE DATA
PRODUCED FIVE COST ESTIMATION EQUATIONS. IN
ADDITION, THE DATA WERE USED TO PRODUCE A SEVEN-PAGE
SYSTEM DESCRIPTION OF EACH ADPS, WHICH BECAME THE
CORE OF THE ADP EXPERIENCE HANDBOOK. A PHASE
III OPERATIONAL CONCEPT AND DEVELOPMENT PLAN WAS
ALSO SYNTHESIZED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-648 226 5/2 9/2 5/1
MITRE CORP BEDFORD MASS
JOINT AFLC/ESD/MITRE ADVANCED DATA MANAGEMENT (ADAM)
EQUIPMENT. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
FEB 67 124P CHAR, BEVERLY F. ;
FOREMAN, ALLING C. ;
REPT. NO. MTR-285
CONTRACT: AF 19(628)-5165
PROJ: AF-503F
MONITOR: ESD TR-66-330

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
*MANAGEMENT ENGINEERING),
PROGRAMMING (COMPUTERS), DOCUMENTATION (U)
IDENTIFIERS: ADAM SYSTEM (U)

THE REPORT DESCRIBES THE COMPONENTS OF THE JOINT
AFLC/ESD/MITRE ADVANCED DATA MANAGEMENT
EXPERIMENT (ADAM) AND THE PROCESS OF
IMPLEMENTATION. THE OBJECTIVE OF THE EXPERIMENT
WAS TO DETERMINE THE APPLICABILITY OF GENERALIZED
DATA MANAGEMENT SYSTEMS SUCH AS ADAM TO
MANAGEMENT INFORMATION PROBLEMS AS FOUND IN AFLC.
OBSERVATIONS CONCERNING THIS APPLICABILITY ARE
GIVEN FROM TWO USER VIEWPOINTS; PROGRAMMER-USER
AND THE APPLICATION OR MISSION-ORIENTED USER.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-648 357 5/2 5/1
OFFICE OF AEROSPACE RESEARCH ARLINGTON VA
DATA SYSTEM FOR MATCHING PLANNED RESEARCH WITH
MILITARY NEEDS. (U)
DESCRIPTIVE NOTE: MANAGEMENT REPT.,
JUL 65 17P HOSHOVSKY, A. G. ; FAVA, J.
A. I.
REPT. NO. OAR-607-5

UNCLASSIFIED REPORT

DESCRIPTORS: (*RESEARCH PROGRAM ADMINISTRATION,
SCIENTIFIC RESEARCH), (*DATA PROCESSING SYSTEMS,
MILITARY REQUIREMENTS), (*PROBLEM SOLVING,
ARMED FORCES RESEARCH), INFORMATION RETRIEVAL,
MANAGEMENT ENGINEERING, DATA, MANAGEMENT
PLANNING (U)

THE IMPROVEMENT IN MANAGING DOD MILITARY
SCIENCES CAN BE ACHIEVED THROUGH A DOCUMENTATION
SYSTEM WHICH INCLUDES AN INVENTORY OF TECHNICAL
PROBLEM/BARRIERS. SUCH AN INVENTORY AS A PART OF A
DOCUMENTATION SYSTEM WHICH ALREADY CONTAINS THE
INVENTORY OF THE ON-GOING WORK AND THE STORE OF
TECHNICAL PAPERS/REPORTS COULD PROVIDE THE MANAGERS
WITH BETTER UNDERSTANDING OF THE PROBLEMS WHICH COULD
BE AIDED THROUGH RESEARCH AND EXPLORATORY
DEVELOPMENT. THE SYSTEM WOULD ALLOW THE MANAGER TO
MATCH THE RESEARCH PROPOSALS WITH THE STATEMENTS OF
NEEDED RESEARCH AND THUS ALLOW FOR THE SUPPORT OF
'MORE RELEVANT' RESEARCH PROJECTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-648 382 5/1 12/2 9/2
CARNEGIE INST OF TECH PITTSBURGH PA MANAGEMENT SCIENCES
RESEARCH GROUP
INFORMATION PROCESSING AND PROGRAMMED DECISION
SYSTEMS. (U)

DESCRIPTIVE NOTE: RESEARCH REPT.,
DEC 66 64P KRIEBEL, CHARLES H. ;
REPT. NO. RK-69
CONTRACT: NONR-760(24)
PROJ: NR-047-U48

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
*MANAGEMENT ENGINEERING), TIME SHARING,
DECISION THEORY, OPTIMIZATION, PRODUCTION
CONTROL, QUADRATIC PROGRAMMING,
PROGRAMMING(COMPUTERS), DESIGN (U)

PROGRAMMING DECISION PROCESSES THROUGH A COMPUTER-
BASED OPERATING SYSTEM OF DECISION RULES HAS BECOME
COMMON BUSINESS PRACTICE TODAY. IN THE DESIGN AND
DEVELOPMENT OF PROGRAMMED DECISION SYSTEMS NEARLY
EVERY REPORTED ANALYSIS CONTAINS THE ASSUMPTION THAT
COST CONSIDERATIONS ASSOCIATED WITH OPERATING
DECISIONS AND WITH INFORMATION PROCESSING ARE
MUTUALLY INDEPENDENT. FOR EXAMPLE, DATA PROCESSING
COSTS ARE USUALLY ASSUMED INDEPENDENT OF ORDER
QUANTITY DECISIONS IN DETERMINING OPTIMAL RULES FOR
INVENTORY CONTROL. WHEN THE NORMATIVE ANALYSIS
CONCERNS THE DESIGN OF BOTH DECISION-MAKING
PROCEDURES AND INFORMATION PROCESSING OPERATIONS, THE
ASSUMPTION OF ECONOMIC INDEPENDENCE IS HIGHLY SUSPECT
AND TYPICALLY RESULTS IN SUB-OPTIMAL SOLUTIONS.
THE REPORT PRESENTS A DETAILED ANALYSIS OF
DECISION AND INFORMATION PROCESSING SYSTEMS DESIGN IN
THE FIRM, BASED ON AGGREGATE PRODUCTION PLANNING AND
COMPUTER DEPENDENT DATA PROCESSING. NUMERICAL
EXAMPLES OF OPTIMAL AND APPROXIMATELY OPTIMAL SYSTEMS
ARE DISCUSSED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-650 570 5/2

DAVID TAYLOR MODEL BASIN WASHINGTON D C APPLIED
MATHEMATICS LAB
THE NAVY AUTOMATED RESEARCH AND DEVELOPMENT
INFORMATION SYSTEM (NARDIS).

(U)

DESCRIPTIVE NOTE: PROGRESS REPT. FOR JUL 65,

AUG 65 19P GRAY, GILBERT R. ;

DUCKENFIELD, THOMAS A. ; FUCHS, JOSEPH L. ;
REPT. NO. DTM6-2103

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL RESEARCH, *INFORMATION
RETRIEVAL), (*DATA PROCESSING SYSTEMS, NAVAL
RESEARCH), DATA STORAGE SYSTEMS, SUBJECT
INDEXING, SCIENTIFIC RESEARCH, COMPUTERS,
AUTOMATIC, MANAGEMENT ENGINEERING, DATA

(U)

IDENTIFIERS: NARDIS, RESEARCH AND DEVELOPMENT

(U)

THE NAVY AUTOMATED RESEARCH AND DEVELOPMENT
INFORMATION SYSTEM (NARDIS) WAS ESTABLISHED
UNDER THE DIRECTION OF THE CHIEF OF NAVAL
RESEARCH WITH FUNDS FROM THE OFFICE OF NAVAL
RESEARCH, THE BUREAU OF SHIPS, AND THE BUREAU
OF NAVAL WEAPONS. THE BASIC OBJECTIVE OF
NARDIS IS TO ESTABLISH AND MAINTAIN A COMMON DATA
BANK OF SCIENTIFIC, TECHNICAL AND ADMINISTRATIVE
INFORMATION ON ALL NAVY-SPONSORED RESEARCH AND
DEVELOPMENT. THIS DATA BANK MAY BE USED AS A PRIME
SOURCE OF RDT+E INFORMATION BY ALL MILITARY,
MANAGEMENT, SCIENTIFIC, AND TECHNICAL ECHELONS OF THE
NAVY. THE REPORT IS A SUMMARY OF THE NARDIS
SYSTEM AND THE PROGRESS MADE DURING THE
IMPLEMENTATION PERIOD OF JANUARY TO JULY, 1965.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-651 481 13/10 5/9 14/1 15/5
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
WASHINGTON D C SHIPBOARD MECHANIZATION/MANPOWER COMM
SHIPBOARD SYSTEMS COSTS: A FUNCTIONAL ANALYSIS OF
WORK ABOARD SHIP. SS DEL MUNDO. A DRY CARGO SHIP IN
THE SOUTH AMERICAN SERVICE. SS DEL ORO. A DRY CARGO
SHIP IN THE AFRICAN SERVICE. (U)
MAR 67 51P
CONTRACT: NONR-2300(23)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-649 387.

DESCRIPTORS: (*CARGO SHIPS, *ANALYSIS),
(*MANPOWER STUDIES, *DATA PROCESSING SYSTEMS),
COSTS, MANPOWER, INFORMATION RETRIEVAL,
MERCHANT VESSELS, DATA STORAGE SYSTEMS, SHIP
AUXILIARY EQUIPMENT, LABOR, WAGES, TABLES,
COMPUTERS, SYSTEMS ENGINEERING, EFFECTIVENESS,
AFRICA, AUTOMATION, SOUTH AMERICA (U)

THE REPORT IS ONE IN A SERIES DETAILING THE RESULTS
OF SYSTEMS ANALYSIS WORK ABOARD TWENTY DIFFERENT
MERCHANT SHIPS. IT PRESENTS INFORMATION RELATING
TO TWO OF THESE SHIPS. THE REPORT ALSO DESCRIBES A
SYSTEM FOR THE RETRIEVAL AND ANALYSIS OF DATA
REQUIRED FOR THE EFFECTIVE MANAGEMENT OF A SHIP.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-651 482 13/10 5/9 14/1 15/5
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
WASHINGTON D C SHIPBOARD MECHANIZATION/HANPOWER COMM
SHIPBOARD SYSTEMS COSTS: A FUNCTIONAL ANALYSIS OF
WORK ABOARD SHIP. SS GLOBE CARRIER. A BULK CARRIER
IN THE TRANS-ATLANTIC SERVICE. ST OCEAN ANNA. A
TANKER IN THE PACIFIC-COASTAL SERVICE. (U)
MAR 67 53P
CONTRACT: NONR-2300(23)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-651 481.

DESCRIPTORS: (*CARGO SHIPS, *ANALYSIS),
(*HANPOWER STUDIES, *DATA PROCESSING SYSTEMS),
HANPOWER, COSTS, MANAGEMENT ENGINEERING,
INFORMATION RETRIEVAL, MERCHANT VESSELS, LABOR,
DATA STORAGE SYSTEMS, SHIP AUXILIARY EQUIPMENT,
TABLES, COMPUTERS, SYSTEMS ENGINEERING,
EFFECTIVENESS, AUTOMATION, PACIFIC OCEAN (U)

THE REPORT IS ONE OF A SERIES DETAILING THE RESULTS
OF SYSTEMS ANALYSIS WORK ABOARD TWENTY DIFFERENT
MERCHANT SHIPS. IT PRESENTS INFORMATION RELATING
TO TWO OF THESE SHIPS. THE REPORT ALSO DESCRIBES A
SYSTEM FOR THE RETRIEVAL AND ANALYSIS OF DATA
REQUIRED FOR THE EFFECTIVE MANAGEMENT OF A SHIP.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-651 546 13/10 5/9 14/1 15/5
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
WASHINGTON D C SHIPBOARD MECHANIZATION/MANPOWER COMM
SHIPBOARD SYSTEMS COSTS: A FUNCTIONAL ANALYSIS OF
WORK ABOARD SHIP. THE SS SONOMA. A DRY CARGO SHIP
IN THE SOUTH PACIFIC SERVICE. (U)
MAR 67 38P
CONTRACT: NONR-2300(23)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-661 482.

DESCRIPTORS: (*CARGO SHIPS, *ANALYSIS),
(*MANPOWER STUDIES, *DATA PROCESSING SYSTEMS),
MANPOWER, COSTS, INFORMATION RETRIEVAL,
MERCHANT VESSELS, LABOR, WAGES, DATA STORAGE
SYSTEMS, SHIP AUXILIARY EQUIPMENT, TABLES,
COMPUTERS, SYSTEMS ENGINEERING, EFFECTIVENESS,
AUTOMATION, SOUTHERN HEMISPHERE, PACIFIC
OCEAN (U)

THE REPORT IS ONE IN A SERIES DETAILING THE RESULTS
OF SYSTEMS ANALYSIS WORK ABOARD TWENTY DIFFERENT
MERCHANT SHIPS. IT PRESENTS INFORMATION RELATING
TO ONE OF THESE SHIPS. THE REPORT ALSO DESCRIBES A
SYSTEM FOR THE RETRIEVAL AND ANALYSIS OF DATA
REQUIRED FOR THE EFFECTIVE MANAGEMENT OF A SHIP.
(AUTHOR) (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-651 582 9/2 5/7
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SEMIANNUAL TECHNICAL SUMMARY REPORT TO THE DIRECTOR,
ADVANCED RESEARCH PROJECTS AGENCY FOR THE PERIOD 1
JULY 1966 TO 31 DECEMBER 1966. (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.
DEC 66 58P
REPT. NO. TM-687/007/00
CONTRACT: F19626-67-C-0004

UNCLASSIFIED REPORT

DESCRIPTORS: (*PROGRAMMING LANGUAGES, REVIEWS),
(*DATA PROCESSING SYSTEMS, REVIEWS),
(*COMPUTERS, REVIEWS), MAN-MACHINE SYSTEMS,
COMMUNICATION SYSTEMS, LANGUAGE, LINGUISTICS,
NETWORKS, COMPILERS, TIME SHARING (U)
IDENTIFIERS: LISP (U)

PROJECTS COVERED IN THE REPORT INCLUDE:
PROGRAMMING LANGUAGE DEVELOPMENT, MAN-
MACHINE COMMUNICATION, DATA BASE SYSTEMS,
COMPUTER NETWORKS, AND LANGUAGE PROCESSING
RESEARCH. A SUMMARY OF THE PROFESSIONAL
ACTIVITIES OF THE STAFF FOR THE PAST SIX MONTHS IS
INCLUDED. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-651 666 13/10 5/9 14/1 15/5
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
WASHINGTON D C SHIPBOARD MECHANIZATION/MANPOWER COMM
SHIPBOARD SYSTEMS COSTS: A FUNCTIONAL ANALYSIS OF
WORK ABOARD SHIP. THE M/S WINNIPEG. A DRY CARGO
SHIP IN THE TRANS-ATLANTIC SERVICE. (U)
MAR 67 34P
CONTACT: NONK-23UG(23)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-651 546.

DESCRIPTORS: (*CARGO SHIPS, *ANALYSIS),
(*MANPOWER STUDIES, *DATA PROCESSING SYSTEMS),
MANPOWER, COSTS, MANAGEMENT ENGINEERING,
INFORMATION RETRIEVAL, MERCHANT VESSELS, LABOR,
DATA STORAGE SYSTEMS, SHIP AUXILIARY EQUIPMENT,
TABLES, COMPUTERS, SYSTEMS ENGINEERING,
EFFECTIVENESS, AUTOMATION, ATLANTIC OCEAN (U)

THE REPORT IS ONE IN A SERIES DETAILING THE RESULTS
OF SYSTEMS ANALYSIS WORK ABOARD TWENTY DIFFERENT
MERCHANT SHIPS. IT PRESENTS INFORMATION RELATING
TO ONE OF THESE SHIPS. THE REPORT ALSO DESCRIBES A
SYSTEM FOR THE RETRIEVAL AND ANALYSIS OF DATA
REQUIRED FOR THE EFFECTIVE MANAGEMENT OF A SHIP.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-654 011 5/1 5/2 9/2
RAND CORP SANTA MONICA CALIF
MANAGEMENT INFORMATION SYSTEM,
MAY 67 10P ZAITSEV, N. G. ;
REPT. NO. LT-67-5
MONITOR: TT 67-62156

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF INFORMATSIONNO-
UPRAVLYAYUSCHCHIE SISTEMY (USSR), N1 P75-82 1965.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
*MANAGEMENT PLANNING), (*INFORMATION RETRIEVAL,
MANAGEMENT PLANNING), ALGORITHMS, CODING,
REAL TIME, SCHEDULING, INPUT-OUTPUT DEVICES,
USSR, PROGRAMMING (COMPUTERS)

(U)

THIS PAPER EXAMINES PROBLEMS OF THE HARDWARE
CONFIGURATION, INFORMATION CONTENT, AND ORGANIZATION
OF A MANAGEMENT INFORMATION SYSTEM BEING
DEVELOPED FOR THE INSTITUTE OF CYBERNETICS OF THE
ACADEMY OF SCIENCES OF THE UKRAINIAN SSR.
THE WORK IS BEING DONE AT THE SUGGESTION OF
ACADEMICIAN V. M. GLUSHKOV UNDER THE
LEADERSHIP OF CANDIDATE OF PHYSICO-MATHEMATICAL
SCIENCES A. A. STOJNI. PROJECTS REPORTS
PREPARED IN VARIOUS DEPARTMENTS OF THE INSTITUTE OF
CYBERNETICS IN 1963-64 WERE USED IN WRITING THIS
PAPER. AMONG THEM, THE WORKS OF V. N.
AFANAS'EV, V. G. BODNARCHUK, E. F.
SKOROKHODKO, AND V. I. SHURIKHIN SHOULD BE
MENTIONED. A GREAT DEAL OF FACTURAL MATERIAL HAS
BEEN COLLECTED BY THE STAFF OF THE DEPARTMENT OF
SCIENTIFIC AND TECHNICAL INFORMATION, HEADED BY
L. S. KOZACHKOV.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-654 560 5/2 9/2
DAVID TAYLOR MODEL BASIN WASHINGTON D C APPLIED
MATHEMATICS LAB
NAVY AUTOMATED RESEARCH AND DEVELOPMENT INFORMATION
SYSTEM (NARDIS) PROGRESS REPORT, JULY 1966. (U)
DESCRIPTIVE NOTE: RESEARCH AND DEVELOPMENT REPT.,
AUG 66 39P GRAY, GILBERT R. ;
DUCKENFIELD, THOMAS A. ; FUCHS, JOSEPH L. ;
REPT. NO. DTMB-2337
PROJ: R-FU99-68-U1

UNCLASSIFIED REPORT

DESCRIPTORS: (•SYSTEMS ENGINEERING, •INPUT-OUTPUT
DEVICES), (•DOCUMENTATION, AUTOMATION),
COMPUTERS, NAVAL RESEARCH, INFORMATION
RETRIEVAL, DATA STORAGE SYSTEMS, MAGNETIC TAPE,
MICROFILM, PROBLEM SOLVING (U)

THE REPORT IS A SUMMARY OF NARDIS (NAVY
AUTOMATED RESEARCH AND DEVELOPMENT
INFORMATION SYSTEM) OPERATIONS FOR FISCAL YEAR
1966. MORE THAN 500 REQUESTS (AMOUNTING TO
NEARLY 800 QUERIES) WERE PROCESSED, THE R AND D
DATA BANK WAS DOUBLED; AND NEW RESPONSIBILITIES WERE
ASSIGNED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD#654 621 5/9

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
AN INSTRUCTIONAL MANAGEMENT SYSTEM FOR THE PUBLIC
SCHOOLS. (U)

DESCRIPTIVE NOTE: TECHNICAL MEMO.,
JUN 67 20P COULSON, JOHN E. ;
REPT. NO. TM-3298/002/00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE ABINGTON
CONFERENCE '67 ON NEW DIRECTIONS IN INDIVIDUALIZING
INSTRUCTION, WILLOW GROVE, PA., APRIL 23-25, 1967.

DESCRIPTORS: (*EDUCATION, COMPUTERS),
(*TEACHING METHODS, COMPUTERS), STUDENTS,
MANAGEMENT ENGINEERING, INSTRUCTORS, DATA
PROCESSING SYSTEMS, PROGRAMMED INSTRUCTION (U)

AN INSTRUCTIONAL MANAGEMENT SYSTEM IS
DESCRIBED AS AN INTERIM APPROACH TOWARD WIDESPREAD
ADOPTION OF COMPUTER-BASED INSTRUCTION. AN
EXPERIMENTAL PROTOTYPE OF THE INSTRUCTIONAL
MANAGEMENT SYSTEM IS BEING DEVELOPED BY SYSTEM
DEVELOPMENT CORPORATION UNDER A CONTRACT FROM THE
SOUTHWEST REGIONAL LABORATORY FOR EDUCATIONAL
RESEARCH AND DEVELOPMENT. IT IS A COMPUTER-
BASED INFORMATION SYSTEM DESIGNED TO AID SCHOOL
PERSONNEL IN THE INDIVIDUAL MONITORING AND MANAGEMENT
OF STUDENT PROGRESS. INPUTS TO THE INSTRUCTIONAL
MANAGEMENT SYSTEM INCLUDE THE RESULT OF
DIAGNOSTIC TESTS, AND INFORMATION ABOUT THE PUPILS
AND THE INSTRUCTIONAL RESOURCE MATERIALS. MACHINE-
PREPARED OUTPUTS SHOW INDIVIDUAL AND GROUP
PERFORMANCE ON THE DIAGNOSTIC TESTS, AND SUGGEST
ALTERNATIVE INSTRUCTIONAL MATERIALS OR TEACHING
TECHNIQUES THAT THE TEACHER MIGHT USE FOR PUPILS WITH
SPECIFIC WEAKNESSES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-655 814 5/1 15/5
LOGISTICS MANAGEMENT INST WASHINGTON D C
TOTAL PACKAGE PROCUREMENT CONCEPT, SYNTHESIS OF
FINDINGS.
JUN 67 122P
CONTRACT: SU-271
TASK: 67-3

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*GOVERNMENT PROCUREMENT,
CONTRACTS), MANAGEMENT PLANNING, LOGISTICS,
DEPARTMENT OF DEFENSE, INDUSTRIES, MANPOWER,
COSTS, MANAGEMENT CONTROL SYSTEMS

(U)

THE TOTAL PACKAGE METHOD OF PROCUREMENT OFFERS
SIGNIFICANT ADVANTAGES OVER DEVELOPMENT-ONLY TYPE
CONTRACTS FOR BOTH THE GOVERNMENT AND INDUSTRY.
ADVANTAGES INCLUDE COST SAVINGS, SHORTEN
DEVELOPMENT SCHEDULES, DESIGN FOR PRODUCIBILITY, LONG
RANGE PLANNING, AND FROM THE GOVERNMENT'S POINT OF
VIEW, INCREASED COMPETITION. DISADVANTAGES INCLUDE
GREATER FINANCIAL RISK, PREMATURE PROGRAM DEFINITION,
AND SEVERE COMPETITION AND INCREASED PROPOSAL
EXPENSES FROM THE CONTRACTOR'S POINT OF VIEW. TPP
SHOULD BE APPLIED TO OPERATIONAL SYSTEMS DEVELOPMENT
PROGRAMS AND TO SMALLER PROGRAMS BELOW THE DOD
DIRECTIVE 3200.9 THRESHOLD CRITERIA. TPP SHOULD
NOT BE APPLIED TO SYSTEMS WHERE THE TECHNOLOGY IS
RAPIDLY CHANGING AND RESPONSIVE TO CHANGING MILITARY
NEEDS OR TO SYSTEMS WHICH REQUIRE AN INTERFACE
APPLICATION. THERE IS A GREATER NEED FOR AN
INTEGRATED MANAGEMENT INFORMATION SYSTEM FOR TPP
PROGRAMS THAN THERE IS FOR DEVELOPMENT-ONLY PROGRAMS.
THE GOVERNMENT SHOULD DISENGAGE FROM THE
CONTRACTOR IN TPP PROGRAMS, AND RETAIN VISIBILITY
BUT NOT CONTROL UNLESS PROGRAM REDIRECTION IS
NECESSARY. ON BALANCE, THE INFLUENTIAL FACTORS OF
COST, SCHEDULE, AND SYSTEM PERFORMANCE IN THE TPP
PROGRAMS STUDIED TEND TO SUPPORT RATHER THAN
CONSTRAIN TECHNICAL INNOVATION. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-657 881 5/1 15/5
NAVAL SUPPLY SYSTEMS COMMAND WASHINGTON D C
UNIFORM AUTOMATED DATA PROCESSING SYSTEM FOR SUPPLY
MANAGEMENT; (U)
OCT 66 6P JONES, R. A. :

UNCLASSIFIED REPORT
AVAILABILITY: PUBLISHED IN NEWSLETTER P22-6 OCT
1966.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
INVENTORY), MANAGEMENT ENGINEERING, INVENTORY
CONTROL, ARMED FORCES SUPPLIES (U)

THE ARTICLE DISCUSSES A UNIFORM AUTOMATED DATA
PROCESSING SYSTEM FOR SUPPLY MANAGEMENT. SUBJECTS
COVERED INCLUDE THE BACKGROUND OF THIS SYSTEM, ITS
OBJECTIVES, THE BASIC CONCEPTS AND ORGANIZATION WHICH
ARE AT THE HEART OF THE SYSTEM, THE PROGRAMS AND
PRINCIPAL FEATURES, AND THE PROBLEMS WE CURRENTLY
FACE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-671 633 9/2 6/3
ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG
MISS
ENVIRONMENTAL DATA COLLECTION METHODS. VOLUME IV:
VEGETATION. INSTRUCTION MANUAL 1, VEGETATION
STRUCTURE. (U)

DESCRIPTIVE NOTE: REPORT ON INSTRUCTION NO. 10.
MAY 68 113P

UNCLASSIFIED REPORT

DESCRIPTORS: (*TERRAIN, MATHEMATICAL MODELS),
(*PLANTS(BOTANY), DATA PROCESSING SYSTEMS),
CLASSIFICATION, SPECIFICATIONS, STRUCTURAL
PROPERTIES, ENVIRONMENT, DATA STORAGE SYSTEMS,
INFORMATION RETRIEVAL, MEASUREMENT,
DICTIONARIES, CELLS(BIOLOGY), CELL
STRUCTURE, RECORDING SYSTEMS, PHOTOGRAPHIC
TECHNIQUES, GEOGRAPHY, SITE SELECTION,
INSTRUCTION MANUALS (U)
IDENTIFIERS: LEAVES, VEGETATION, FOLIAGE (U)

THIS MANUAL IS DESIGNED PRIMARILY TO PROVIDE
SPECIFICATIONS FOR THE MEASUREMENT AND RECORDING OF
QUANTITATIVE DATA DESCRIBING THE STRUCTURAL
CHARACTERISTICS OF VEGETATION ASSEMBLAGES, BUT
PROVISIONS HAVE ALSO BEEN MADE FOR THE ACQUISITION OF
QUALITATIVE SUPPLEMENTAL INFORMATION, SUCH AS PLANT
NOMENCLATURE, LEAF CONDITION, PRESENCE OF IRRITANTS,
AND SO ON. THE FORMATS USED FOR RECORDING THE DATA
HAVE BEEN DESIGNED FOR COMPATIBILITY WITH AUTOMATIC
DATA PROCESSING (ADP) MACHINES TO MINIMIZE THE
DIFFICULTIES OF DATA STORAGE, RETRIEVAL, AND
MANIPULATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-671 949 5/1 5/2 9/2
NEW YORK UNIV N Y DEPT OF INDUSTRIAL ENGINEERING AND
OPERATIONS RESEARCH
A MATHEMATICAL MODEL OF THE FLOW OF DATA IN A
MANAGEMENT INFORMATION SYSTEM, VOLUME 1. (U)
DESCRIPTIVE NOTE: DOCTORAL THESIS,
MAY 68 160P HOMER, EUGENE D. ;
CONTRACT: AF-AFOSR-621-66
PROJ: AF-9749
TASK: 974901
MONITOR: AFOSR 68-0095-VOL-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
MANAGEMENT PLANNING), (*MANAGEMENT PLANNING,
MATHEMATICAL MODELS), FLOW CHARTING,
ALGORITHMS, SYSTEMS ENGINEERING, MATRIX ALGEBRA,
DATA, SEMANTICS, THESES (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
DATA MANAGEMENT (U)

PREVIOUS WORK IN THE FORMULATION OF A MATRIX MODEL
FOR THE FLOW OF DATA IN A MANAGEMENT INFORMATION
SYSTEM IS EXTENDED TO INCLUDE THREE ADDITIONAL TYPES
OF SYSTEMS PHENOMENA. THESE ARE: (A) DATA
FILTERING, BOTH CONDITIONAL AND UNCONDITIONAL,
(B) INTERNALLY GENERATED ITEMS OF DATA, AND
(C) THE SEMANTIC RELATION OF DENOTATION AMONG
ITEMS OF DATA. THE CONCEPT OF MACRO-MODEL ANALYSIS
VS. MICRO-MODEL ANALYSIS IS INTRODUCED. METHODS
ARE GIVEN FOR SOLVING THE MODELS FOR EITHER THE
NUMBER OF PATHS CONNECTING INPUTS TO OUTPUTS OR FOR
COMPLETE SPECIFICATION OF ALL SUCH PATHS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 046 15/5 5/1 1/3
ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA
PILOT IMPLEMENTATION OF THE MANAGEMENT SYSTEM FOR
HIGH-VALUE ARMY AVIATION COMPONENTS - AMHVP. (U)
DESCRIPTIVE NOTE: INTERIM REPT. NO. 5,
SEP 68 33P WILLIAMS, R. WADE ;
COHEN, MARTIN E. ; HOETTE, FRED M. ;
WHITE, WILLIAM W. , JR ;
PROJ: AMHVP-149-665
MONITOR: AMC STUDY-7-66

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY AIRCRAFT, *ARMED FORCES
PROCUREMENT), (*INVENTORY CONTROL, *MANAGEMENT
CONTROL SYSTEMS), COMPUTER PROGRAMS,
SUBROUTINES, REPORTS, SPARE PARTS,
MAINTAINABILITY, COSTS, ERRORS, SUPPLY
DEPOTS (U)
IDENTIFIERS: ACIMS(AIRCRAFT COMPONENT INTENSIVE
MANAGEMENT SYSTEM), *MANAGEMENT INFORMATION
SYSTEMS, GOODNESS COMPUTER PROGRAM (U)

THIS IS A REPORT OF A RECENT STUDY UNDERTAKEN TO
DETERMINE WHETHER OR NOT ACIMS DATA COULD BE USED
FOR A DYNAMIC SUPPLY MANAGEMENT APPLICATION. THE
STUDY CONCERNED ITSELF WITH 3 ASPECTS OF THE ACIMS
DATA BASIS: TIMELINESS, COMPLETENESS, AND
CORRECTNESS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 069 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
THE EFFECT OF THE LOGISTIC PORTION OF CCLS-70 ON
THE LMI SYSTEM. (U)
JUN 68 19P
REPT. NO. APJ-565-221
CONTRACT: DAJA37-67-C-0954

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT
ENGINEERING), SYSTEMS ENGINEERING, ARMY
OPERATIONS, COMMAND + CONTROL SYSTEMS, INVENTORY
CONTROL, STORAGE, ARMED FORCES TRANSPORTATION (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INFORMATION
SYSTEMS, CCLS-70 (U)

THE STUDY ANALYZES THE LOGISTIC PORTION OF THE
CCLS-70 STUDY TO DETERMINE THE IMPACT OF THE
IMPLEMENTATION OF THE CCLS-70 CONCEPT ON THE
LOGISTIC MANAGEMENT INFORMATION SYSTEM, AND
TO DEFINE ANY CHANGES REQUIRED IN THE LMI SYSTEM
RESULTING FROM CCLS-70 IMPLEMENTATION. IT IS ONE
OF SIX STUDIES PREPARED TO PROVIDE ANALYSES OF THE
EFFECT OF MAJOR DEPARTMENT OF ARMY CURRENT AND
FUTURE PROGRAMS ON THE LOGISTIC MANAGEMENT
INFORMATION SYSTEM. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 080 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
OVERHAUL PROGRAM EXECUTION. LMI REF. NO.
M1.

(U)

JAN 68 4P

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (•LOGISTICS, •MANAGEMENT CONTROL
SYSTEMS), MATERIAL CONTROL, ARMED FORCES
SUPPLIES, MAINTENANCE, COMBAT READINESS,
INVENTORY CONTROL, ARMY EQUIPMENT, MANAGEMENT
PLANNING, ARMY AIRCRAFT, VEHICLES, GUIDED
MISSILES, SHIPS, COMMUNICATION SYSTEMS,
CONSTRUCTION MATERIALS, ARMAMENT, RAILROADS,
ARMED FORCES (FOREIGN)

(U)

IDENTIFIERS: •MANAGEMENT INFORMATION SYSTEMS,
OVERHAUL, LMI (LOGISTIC MANAGEMENT
INDICATOR), •LOGISTIC MANAGEMENT INDICATORS,
MAINTENANCE MANAGEMENT

(U)

THIS LMI PROVIDES MEASUREMENT OF OVERHAUL
ACCOMPLISHED RELATIVE TO THAT PROGRAMMED.
MEASUREMENTS ARE PROVIDED FOR ITEMS AND COMPONENTS
INCLUDED IN THE SEVENTH ARMY REPAIR, REBUILD, AND
OVERHAUL PROGRAMS, AND AT USACOMZEUR LEVEL, FOR
THOSE ITEMS AND COMPONENTS INCLUDED IN THE USAREUR
DEPOT MAINTENANCE PROGRAM. THESE MEASUREMENTS
PROVIDE THE MEANS TO IDENTIFY DEVIATIONS FROM THE
PROGRAM AND INDICATE AREAS WHERE FURTHER ANALYSIS IS
REQUIRED TO IDENTIFY SPECIFIC PROBLEM AREAS AND
INITIATE CORRECTIVE ACTION. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD#679 081 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
MAINTENANCE TURNAROUND TIME. LMI REF. NO.
M2.
JAN 68 14P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (•LOGISTICS, •MANAGEMENT CONTROL
SYSTEMS), MATERIAL CONTROL, MAINTENANCE, TIME
STUDIES, COMBAT READINESS, MANAGEMENT PLANNING,
ARMY AIRCRAFT, VEHICLES, GUIDED MISSILES,
SHIPS, COMMUNICATION SYSTEMS, CONSTRUCTION
MATERIALS, ARMAMENT, RAILROADS, MAINTENANCE
EQUIPMENT, ARMY EQUIPMENT

(U)

IDENTIFIERS: •MANAGEMENT INFORMATION SYSTEMS,
OVERHAUL, TURNAROUND TIME, LMI (LOGISTIC
MANAGEMENT INDICATOR), •LOGISTIC MANAGEMENT
INDICATORS, MAINTENANCE MANAGEMENT

(U)

THIS MANAGEMENT INDICATOR PROVIDES INFORMATION AS
TO THE TIME REQUIRED TO PROCESS ITEMS THROUGH
MAINTENANCE BY LEVEL OF MAINTENANCE AND BY MAJOR
TYPES OR CATEGORIES OF EQUIPMENT. IT IS RESTRICTED
TO MAINTENANCE ACCOMPLISHED AT DIRECT SUPPORT AND
GENERAL SUPPORT LEVELS, AND MAINTENANCE OTHER
THAN THAT INCLUDED IN THE SEVENTH ARMY GENERAL
SUPPORT REPAIR, REBUILD, AND OVERHAUL PROGRAM.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 082 15/5 S/1
AMERICAN POWER JET CO RIDGEFIELD N J
REPARABLE COMPONENT RETURN TIME TO OVERHAUL POINT.
LMI REF. NO. M3. (U)
MAY 68 14P

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), MATERIAL CONTROL, MAINTENANCE, TIME
STUDIES, STATISTICAL ANALYSIS, COMBAT READINESS,
MANAGEMENT PLANNING, ARMY AIRCRAFT, VEHICLES,
GUIDED MISSILES, SHIPS, COMMUNICATION SYSTEMS,
CONSTRUCTION MATERIALS, ARMAMENT, RAILROADS,
MAINTENANCE EQUIPMENT, ARMY EQUIPMENT (U)
IDENTIFIERS: MAINTENANCE DOWNTIME, *MANAGEMENT
INFORMATION SYSTEMS, LMI (LOGISTIC MANAGEMENT
INDICATOR), *LOGISTIC MANAGEMENT INDICATORS,
MAINTENANCE MANAGEMENT (U)

STUDIES HAVE SHOWN THAT A MAJOR CONTRIBUTOR TO
EXCESSIVE DOWNTIME FOR ARMY EQUIPMENT IS THE LENGTH
OF TIME REQUIRED TO RETURN UNSERVICEABLE COMPONENTS,
TO A LEVEL OF MAINTENANCE CAPABLE OF RETURNING THE
COMPONENTS TO A SERVICEABLE CONDITION. THE
IMPORTANCE OF PROMPT RETURN OF THESE ITEMS IS SEEN IN
AR 750-1, 'MAINTENANCE CONCEPTS', 21 JUN
1967, WHICH STATES: 'CONTINUOUS COMMAND EMPHASIS
ON THE PROMPT EVACUATION OF REPAIRABLE UNSERVICEABLE
COMPONENTS AND END ITEMS TO DIRECT SUPPORT, GENERAL
SUPPORT AND DEPUT MAINTENANCE FACILITIES IS MANDATORY
TO ENABLE TIMELY MAINTENANCE CONTRIBUTION TO MATERIEL
READINESS.' THE LMI PROPOSES A SYSTEM FOR
EXPEDITIOUS RETURN TIME. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 083 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
EQUIPMENT AUTHORIZED VS. ON-HAND. LMI REF.
NO. MRI.

(U)

68 9P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY ANALYSIS, STOCK LEVEL
CONTROL, ADVANCED PLANNING, MANAGEMENT PLANNING,
COMBAT READINESS, ARMY EQUIPMENT, ARMY AIRCRAFT,
VEHICLES, GUIDED MISSILES, SHIPS,
COMMUNICATION SYSTEMS, CONSTRUCTION MATERIALS,
ARMAMENT, RAILROADS, MAINTENANCE EQUIPMENT (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
LMI (LOGISTIC MANAGEMENT INDICATOR),
*LOGISTIC MANAGEMENT INDICATORS, MAINTENANCE
MANAGEMENT, *REDCAPE CATEGORIES (U)

THIS INDICATOR MEASURES THE RATIO OF ON HAND
EQUIPMENT TO EQUIPMENT AUTHORIZED BY MAJOR CATEGORIES
OF EQUIPMENT. IT PROVIDES THE DCSLOG WITH
CURRENT RELATIONSHIP BETWEEN AUTHORIZATION AND ON
HAND EQUIPMENT BY MAJOR CATEGORIES AND PROVIDES A
PROJECTION FOR FUTURE PERIODS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 084 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
EQUIPMENT SERVICEABILITY RATES, LMI REF. NO.
MR2.

(U)

68 8P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), STRATEGIC MATERIALS, INVENTORY
ANALYSIS, MANAGEMENT PLANNING, COMBAT READINESS,
ARMY EQUIPMENT, DATA PROCESSING SYSTEMS

(U)

IDENTIFIERS: SERVICEABILITY, LMI (LOGISTIC
MANAGEMENT INDICATOR), *LOGISTIC MANAGEMENT
INDICATORS, *MANAGEMENT INFORMATION SYSTEMS,
MAINTENANCE MANAGEMENT, REDCAPE CATEGORIES

(U)

THIS INDICATOR PROVIDES INFORMATION ON THE
SERVICEABILITY RATES FOR ON-HAND EQUIPMENT ISSUED TO
TROOPS, BY MAJOR CATEGORIES OF EQUIPMENT.
INFORMATION IS RELATED TO THE REDCAPE CATEGORIES
ASSIGNED TO TROOP UNITS OWNING THE EQUIPMENT. THE
SERVICEABILITY RATES EXPRESSED ARE BASED UPON
EQUIPMENT PROFILES AS REPORTED UNDER THE PROVISIONS
OF AR 220-1. THE SERVICEABILITY CONDITION
REPORTED UNDER THIS AR IS THE CONDITION OF THE
EQUIPMENT BASED UPON AN ESC INSPECTION ACCOMPLISHED
WITHIN A 90-DAY PERIOD, COVERED BY THE REPORTING
CYCLE. THEREFORE, IT DOES NOT COVER AVERAGE
CONDITIONS, BUT RATHER CONDITIONS AT A *POINT IN
TIME. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 085 15/5 5/1

AMERICAN POWER JET CO RIDGEFIELD N J
EQUIPMENT DEADLINE RATES: NORS, NORM, LMI
REF. NO. MR3.

(U)

08 10P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY ANALYSIS, OPERATIONAL
READINESS, ARMY EQUIPMENT, ARMY AIRCRAFT,
ADVANCED PLANNING, REPORTS, DATA PROCESSING
SYSTEMS

(U)

IDENTIFIERS: NORS (NOT OPERATIONALLY READY
SUPPLY), NORM (NOT OPERATIONALLY READY
MAINTENANCE), *MANAGEMENT INFORMATION SYSTEMS,
MAINTENANCE MANAGEMENT, LMI (LOGISTIC MANAGEMENT
INDICATOR), *LOGISTIC MANAGEMENT INDICATORS

(U)

OPERATIONALLY READY (OR) RATES FOR MAJOR ITEMS
OF EQUIPMENT ARE PRIMARY INDICATORS OF LOGISTIC
PERFORMANCE AND EFFECTIVENESS. THESE RATES PROVIDE
A MEASUREMENT OF THE ACTUAL TIME EQUIPMENT WAS
OPERATIONALLY READY DURING ANY PERIOD, THE TIME
EQUIPMENT WAS NOT READY (NOR) AND THE REASONS FOR
THE NOT OPERATIONALLY READY CONDITION. NOT
OPERATIONALLY READY CONDITIONS ARE MEASURED IN
TERMS OF NORM (NOT OPERATIONALLY READY,
MAINTENANCE), AND NORS (NOT OPERATIONALLY
READY, SUPPLY). THIS MEASUREMENT DIFFERS
FROM THAT DESCRIBED IN LMI M2, EQUIPMENT
SERVICEABILITY RATES, IN THAT AS NOTED ABOVE,
MEASUREMENTS OF READINESS ARE RELATED TO ACTUAL
READINESS ATTAINED OVER A REPORTING PERIOD.
SERVICEABILITY, AS DISCUSSED UNDER LMI MR2,
RELATES TO PREDICTED READINESS OF EQUIPMENT FOR A
FUTURE PERIOD BASED UPON AN INSPECTION AT A POINT IN
TIME. OPERATIONAL READINESS AS MEASURED IN THIS
LMI IS CONSIDERED TO BE THE MORE MEANINGFUL MEASURE
OF PERFORMANCE IN ATTAINING ITS OBJECTIVE OF MATERIEL
READINESS OF THE LOGISTIC SYSTEM. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 086 15/5 5/1
AMERICAN POWER JET CO KIDGFIELD N J
UNIT DEPLOYABILITY STATUS. LMI REF. NO.
MR4.

(U)

68 6P

UNCLASSIFIED REPORT

DESCRIPTORS: (•LOGISTICS, •MANAGEMENT CONTROL
SYSTEMS), INVENTORY CONTROL, STRATEGIC
MATERIALS, DEPLOYMENT, ARMY EQUIPMENT, ADVANCED
PLANNING, OPERATIONAL READINESS

(U)

IDENTIFIERS: •MANAGEMENT INFORMATION SYSTEMS,
LMI (LOGISTIC MANAGEMENT INDICATOR),
•LOGISTIC MANAGEMENT INDICATORS, MAINTENANCE
MANAGEMENT, REDCAPE CATEGORIES

(U)

THIS INDICATOR MEASURES REPORTING UNITS FAILING
REDCAPE FOR DEPLOYABILITY. THE DEPLOYABILITY
STATUS OF UNITS, AS SHOWN IN DA FORM 2715, RCS
CSGPO-266 (R-2), IS CONSIDERED ONE OF THE
PRIMARY INDICATORS OF THE LOGISTIC READINESS OF
USARMC UNITS. THIS MEASUREMENT CONSIDERS BOTH
THE ON HAND VERSUS AUTHORIZED STATUS OF EQUIPMENT FOR
EACH UNIT AND THE SERVICEABILITY OF THE ON-HAND
EQUIPMENT. THEREFORE, FAILURE TO MEET THESE
REDCAPE REQUIREMENTS INDICATES SERIOUS READINESS
PROBLEMS IN THE AREA OF EQUIPMENT REQUIREMENTS AND
SERVICEABILITY. (AUTHOR)

(U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PVO1

AD-679 088 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
RESULTS OF INSPECTION REPORTS. LMI REF. NO.
MR5.

66 9P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), MANAGEMENT PLANNING, INVENTORY
CONTROL, MAINTAINABILITY, SCHEDULING,
OPERATIONAL READINESS, ARMY EQUIPMENT, REPORTS (U)
IDENTIFIERS: FAILURE RATES, INSPECTION REPORTS,
REDCAPE CATEGORIES, LMI (LOGISTIC MANAGEMENT
INDICATOR), *LOGISTIC MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS (U)

A MAJOR SOURCE OF MANAGEMENT INFORMATION AVAILABLE
TO THE DCSLOG LIES IN THE VARIOUS INSPECTION
REPORTS OF LOGISTIC UNITS IN THE THEATER. THESE
REPORTS PROVIDE DETAILED DISCUSSIONS AND ANALYSES OF
THE DEFICIENCIES FOUND AT UNIT LEVEL. THEY FURNISH
A BASIS FOR DETERMINING THE STATUS OF TRAINING,
MANAGEMENT AND RESOURCES, AND THE MAJOR PROBLEMS
CONFRONTING THE UNITS WHICH REDUCE THEIR
EFFECTIVENESS IN ACCOMPLISHING THEIR MISSION.
THERE ARE NUMEROUS INSPECTIONS WHICH PRODUCE
INFORMATION REGARDING THE STATUS OF THE LOGISTIC
SYSTEM AND UNIT. THESE INCLUDE SCHEDULED RECURRING
INSPECTIONS I.E., THE CMMI, LOPIT, AND AGI.
OTHER NON-RECURRING TYPES OF INSPECTIONS WHICH
PROVIDE VALUABLE INFORMATION ARE INSPECTIONS
ACCOMPLISHED BY THE GAO, THE AAA, AND SPECIAL
INSPECTIONS PERFORMED ON AN AS-REQUIRED BASIS.
RECURRING INSPECTIONS ARE OF PARTICULAR IMPORTANCE
SINCE THEY PERMIT A STUDY OF CHANGES OVER TIME IN THE
RELATIVE CONDITION OF LOGISTIC UNITS. THEREFORE,
PARTICULAR IMPORTANCE MUST BE ATTACHED TO REPORTS OF
THE RESULTS OF THESE INSPECTIONS. (AUTHOR) (U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 089 15/5 5/9
AMERICAN POWER JET CO RIDGEFIELD N J
PERSONNEL: REQUIRED VS. AUTHORIZED VS. ON-
HAND. LMI REF. NO. R1.
JAN 68 38P

(U)

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (LOGISTICS, MANAGEMENT CONTROL
SYSTEMS), MAINTENANCE PERSONNEL, INVENTORY,
MEASUREMENT, STANDARDS, SOURCES, MILITARY
REQUIREMENTS, DATA PROCESSING SYSTEMS,
PROGRAMMING (COMPUTERS), TABLES,

DOCUMENTATION, MAINTENANCE

(U)

IDENTIFIERS: LOGISTICS MANAGEMENT INDICATORS,
MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, AUTHORIZED PERSONNEL, ON HAND
PERSONNEL

(U)

THE ANALYSIS OF LOGISTIC PERSONNEL STATUS SHOULD BE
BASED ON MEASUREMENTS OF REQUIREMENTS,
AUTHORIZATIONS, CURRENT AND PROJECTED STRENGTH, NOT
ONLY IN THE LOGISTICS AREA AS A WHOLE BUT ALSO IN THE
PRIMARY FUNCTIONAL AREAS OF SUPPLY, MAINTENANCE AND
TRANSPORTATION. IN EACH OF THESE AREAS,
INFORMATION MUST BE AVAILABLE ON THE STATUS OF EACH
CATEGORY OF PERSONNEL, INCLUDING OFFICERS, WARRANT
OFFICERS, ENLISTED MEN, DEPARTMENT OF THE ARMY
CIVILIANS, AND LOCAL NATIONALS. FURTHER
INFORMATION SHOULD BE AVAILABLE IN EACH CATEGORY OF
PERSONNEL ON STATUS BY RANK OR GRADE AND BY SKILL
LEVEL. INFORMATION MUST ALSO BE AVAILABLE ON
PARTICULAR SKILLS WHICH ARE CRITICALLY SHORT.
(AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 090 15/5 5/9
AMERICAN POWER JET CO RIDGEFIELD N J
MANPOWER AVAILABILITY: LOST TIME VS. ON-THE-
JOB TIME. LMI REF. NO. R2.
JAN 68 21P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), MAINTENANCE, MANPOWER,
EFFECTIVENESS, MANAGEMENT PLANNING, MEASUREMENT,
STANDARDS, SOURCES, MILITARY REQUIREMENTS,
DATA PROCESSING SYSTEMS, REPORTS (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, LOST TIME, ON THE JOB TIME (U)

A MAJOR ELEMENT OF LOGISTIC MANAGEMENT IS THE
EFFECTIVE USE OF MANPOWER AVAILABLE TO THE MANAGER.
THIS SUBJECT IS PARTICULARLY IMPORTANT DURING
PERIODS WHEN PERSONNEL SHORTAGES REDUCE MANPOWER
RESOURCES BELOW REQUIRED LEVELS. PERSONNEL
SHORTAGES CAN BE ALLEVIATED TO SOME EXTENT BY
OBTAINING THE MAXIMUM UTILIZATION OF AVAILABLE
PERSONNEL. CONVERSELY, INEFFECTIVE USE OF
AVAILABLE MANPOWER RESULTS IN PERSONNEL SHORTAGES
CREATING EVEN GREATER PROBLEMS. THEREFORE, THE
MAXIMUM UTILIZATION OF AVAILABLE MANPOWER RESOURCES
IS A MATTER OF PRIME CONCERN AND ONE WHICH SHOULD BE
CONTINUALLY REVIEWED AT ALL LEVELS OF MANAGEMENT.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 091 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
FUNDS REQUIREMENTS VS. AVAILABILITY. LHI REF.
NO. R3.
JUN 68 11P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: *LOGISTICS, MANAGEMENT CONTROL
SYSTEMS), MANAGEMENT PLANNING, COSTS, BUDGETS,
MILITARY REQUIREMENTS, ABUNDANCE, CORRELATION
TECHNIQUES, INEQUALITIES, MEASUREMENT,
STANDARDS, SOURCES, DATA PROCESSING SYSTEMS,
DOCUMENTATION, MAINTENANCE

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, OBJECTIVES

(U)

THIS MANAGEMENT INDICATOR SHOWS THE RELATIONSHIP
BETWEEN THE FUNDS REQUIRED FOR THE ACOMPLISHMENT OF
ARMY LOGISTIC PROGRAMS AND FUNDS MADE AVAILABLE
THROUGH ANNUAL FUNDING PROGRAMS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 092 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
OBLIGATIONS: PROGRAMMED VS. ACTUAL, LMI REF.
NO. K4. (U)
JAN 68 13P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), MAINTENANCE, MANAGEMENT PLANNING,
BUDGETS, SCHEDULING, MILITARY REQUIREMENTS,
ABUNDANCE, CORRELATION TECHNIQUES, INEQUALITIES,
MEASUREMENT, STANDARDS, SOURCES, DATA
PROCESSING SYSTEMS, DOCUMENTATION (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, OBLIGATIONS (U)

THIS MANAGEMENT INDICATOR MEASURES THE RATE AT
WHICH FUNDS AVAILABLE TO THE COMMAND (BOTH DIRECT
AND REIMBURSABLE) TO MEET ANNUAL LOGISTIC
REQUIREMENTS ARE OBLIGATED DURING THE YEAR.
MEASUREMENTS ARE PROVIDED FOR EACH BUDGET PROGRAM
FOR WHICH THERE IS RESPONSIBILITY OR IN WHICH THERE
IS A PRIMARY INTEREST. FUNDS MADE AVAILABLE IN
ANNUAL FUNDING PROGRAMS CANNOT, BY LAW, BE OVER-
OBLIGATED. CONSEQUENTLY, INFORMATION RELATING TO
THE RATE AT WHICH THESE FUNDS ARE OBLIGATED IS OF
PRIME IMPORTANCE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 093 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
STOCK FUND - SALES VS. OBLIGATIONS. LMI REF.
NO. K5. (U)
DEC 67 9P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), MONEY, BUDGETS, MANAGEMENT PLANNING,
PREDICTIONS, INEQUALITIES, MEASUREMENT,
STANDARDS, SOURCES, DOCUMENTATION, MAINTENANCE (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, ARMY STOCK FUND, SALES,
OBLIGATIONS (U)

THE ARMY STOCK FUND IS A REVOLVING FUND: IN
THEORY, FOR EVERY DOLLAR OBLIGATED TO PROCURE STOCKS,
A DOLLAR SHOULD BE RECEIVED FROM THE SALES OF STOCKS.
THIS RATIO, IN PRACTICE, FLUCTUATES OVER SHORT
PERIODS OF TIME. MAJOR DEVIATIONS FROM FORECASTS
AND PROGRAMS WILL RESULT IN THE ACCUMULATION OF
EXCESS STOCK IN THE STOCK FUND CATEGORY OF SUPPLIES
OR SUPPLY SHORTAGES WITH RESULTANT INABILITY TO MEET
CUSTOMER DEMANDS. IT IS IMPORTANT TO HAVE CURRENT
INFORMATION IN THIS AREA. SIGNIFICANT DEVIATIONS
FROM THE FORECAST OF EITHER SALES OR OBLIGATIONS
INDICATE A NEED FOR PROMPT ACTION, WITH ADJUSTMENT OF
PROGRAMS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 094 15/5 5/1

AMERICAN POWER JET CO RIDGEFIELD N J
DEMAND ACCOMMODATION, DEMAND SATISFACTION, BACK
ORDER LEVEL. LMI REF. NO. S1.

(U)

JAN 68 16P

UNCLASSIFIED REPORT

PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSI
ORDERING INSTRUCTIONS.

DE. REPORTS: (•LOGISTICS, •MANAGEMENT CONTROL
SYSTEMS, INVENTORY CONTROL, SYSTEMS
ENGINEERING, PREDICTIONS, PROCUREMENT,
MANAGEMENT PLANNING, DOCUMENTATION, GRAPHICS,
MAINTENANCE, MEASUREMENT, STANDARDS, SOURCES,
MILITARY REQUIREMENTS, DATA PROCESSING SYSTEMS,
SCHEDULING, FREQUENCY

(U)

IDENTIFIERS: •LOGISTICS MANAGEMENT INDICATORS,
•MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, DEMAND, SATISFACTION, BACK ORDER
LEVELS

(U)

THIS INDICATOR PROVIDES A MEASUREMENT OF SUPPLY
SYSTEM PERFORMANCE USING THE ABOVE THREE REQUIREMENTS
AS CRITERIA. THE QUANTITIES THAT ARE MEASURED TO
SEE WHETHER THESE CRITERIA ARE BEING MET ARE DEMAND
ACCOMMODATION RATES, DEMAND SATISFACTION RATES, AND
THE LEVEL OF BACK ORDERS. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 095 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
ZERO BALANCE AND BELOW SAFETY LEVEL RATES. LMI
REF. NO. 52.
JAN 68 15P

(U)

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CPSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY, MEASUREMENT,
MALFUNCTIONS, INEQUALITIES, DETECTION,
DOCUMENTATION, CORRELATION TECHNIQUES,
STANDARDS, FREQUENCY, SOURCES, MILITARY
REQUIREMENTS, DATA PROCESSING SYSTEMS, MANAGEMENT
PLANNING, MAINTENANCE

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, ZERO BALANCES, BELOW SAFETY LEVEL
RATES

(U)

THIS INDICATOR PROVIDES A MEASUREMENT OF THE LINE
ITEMS OF STOCKS REQUIRED TO BE ON HAND BY AUTHORIZED
STOCKAGE LISTS, BUT WHICH ARE EITHER IN ZERO BALANCE
OR ARE BELOW THE ESTABLISHED SAFETY LEVEL.
MEASUREMENTS ARE RELATED TO ALL CLASSES OF STOCKS
EXCEPT CLASSES 1, 3, AND 5 WHICH ARE COVERED AND
PROVIDED AT SEVENTH ARMY LEVELS. THE ZERO
BALANCE AND THE BELOW SAFETY LEVEL RATES MEASURE THE
READINESS OF THE SUPPLY SYSTEM TO SATISFY DEMANDS
PLACED AGAINST IT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 096 15/5 S/1
AMERICAN POWER JET CO RIDGEFIELD N J
EXCESS STOCK POSITION. LMI REF. NO. S3. (U)
JAN 68 18P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY CONTROL, MANAGEMENT
PLANNING, MEASUREMENT, AMMUNITION,
DOCUMENTATION, FREQUENCY, STANDARDS, SOURCES,
MILITARY REQUIREMENTS, DATA PROCESSING SYSTEMS,
MAINTENANCE (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, GRAPHS(CHARTS), EXCESS STOCKS,
NONSTOCK FUND ITEMS (U)

THE RETENTION OF EXCESS STOCKS AT ANY LEVEL OF
SUPPLY REDUCES EFFICIENCY AND PERFORMANCE, AND
INCREASES COST. SUCH STOCKS MUST RECEIVE CARE AND
PRESERVATION, REQUIRE MAN-HOURS FOR RECORD KEEPING
AND ACCOUNTING, AND UTILIZE STORAGE SPACE FREQUENTLY
NEEDED FOR OPERATING STOCKS. PERHAPS EVEN MORE
IMPORTANT, SUCH STOCKS ARE NOT AVAILABLE TO OTHER
USERS WHO MAY HAVE A VALID REQUIREMENT FOR THEM.
FINALLY, EXCESS STOCK FUNDED ITEMS REPRESENT AN
INVESTMENT OF OPERATING CAPITAL WHICH MAY, IN SOME
INSTANCES, BE RECOUPED THROUGH RETURN TO THE STOCK
FUND. THIS ACTION RELEASES OPERATING FUNDS TO MEET
OTHER PRIORITY REQUIREMENTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 097 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
DEPOT STOCKS: CARE AND PRESERVATION STATUS. (U)
DEC 67 11P

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), STOCK LEVEL CONTROL, ARMY EQUIPMENT,
AMMUNITION, DETERIORATION, MATERIAL CONTROL, (U)
STORAGE, SAMPLING, MANAGEMENT PLANNING
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
LMI (LOGISTIC MANAGEMENT INDICATOR),
*LOGISTICS MANAGEMENT INDICATORS (U)

IT IS RECOGNIZED THAT CARE AND PRESERVATION -
CYCLICAL IS DONE ON A SAMPLING BASIS, AND THAT
RESULTS OBTAINED IN ANY ONE QUARTER REPRESENT
INSPECTION OF ONLY A PORTION OF THE TOTAL DEPOT
STOCKS. NEVERTHELESS, IF THE CARE AND
PRESERVATION - CYCLICAL PROGRAM IS CARRIED OUT AS
PRESCRIBED, TREND RATES PROVIDE A MEASUREMENT OF THE
CONDITION OF STOCKED STOCKS. THIS INDICATOR
PROVIDES SUCH A MEASUREMENT. BECAUSE OF THE MAJOR
DIFFERENCES BETWEEN STORAGE OF AMMUNITION AND STORAGE
OF OTHER DEPOT STOCKS, SEPARATE MEASUREMENTS ARE
PROVIDED FOR THESE TWO CATEGORIES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD#679 098 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
CARE AND PRESERVATION PROGRAM BACKLOGS. LMI REF.
NO. 55. (U)
JAN 68 12P

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSII
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), SUPPLY DEPOTS, STORAGE, INVENTORY
CONTROL, ACCEPTABILITY, DETERIORATION,
MEASUREMENT, GRAPHICS, STANDARDS, DATA
PROCESSING SYSTEMS, REPORTS, MANAGEMENT PLANNING,
MAINTENANCE (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, CARE AND PRESERVATION PROGRAMS,
BACKLOGS (U)

STOCKS IN A CONDITION CODE REQUIRING CARE AND
PRESERVATION BEFORE ISSUE REPRESENT AN INVESTMENT
WHICH CANNOT BE UTILIZED UNTIL THE NECESSARY WORK HAS
BEEN ACCOMPLISHED TO PLACE THESE STOCKS IN AN
ISSUABLE CONDITION. EXCESSIVE QUANTITIES OF ITEMS
REQUIRING CARE AND PRESERVATION REDUCE THE SUPPLY
SYSTEM'S CAPABILITY TO MEET CUSTOMER REQUIREMENTS,
ARE SUBJECT TO FURTHER DETERIORATION, MAY RESULT IN
INCREASED INVESTMENT REQUIREMENTS FOR STOCKS, AND
ULTIMATELY REDUCE UNIT AND EQUIPMENT READINESS.
THEREFORE, MAINTAINING SUCH UNSERVICEABLES AT A
REASONABLE LEVEL IS A PRIMARY LOGISTIC OBJECTIVE.
MEASUREMENTS FOR THIS LMI ARE RELATED ONLY TO
BACKLOGS OF WORK IN THE CARE AND PRESERVATION -
PROCESSING IN STORAGE PROGRAM. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 049 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
MRO DENIAL RATES. LMI REF. NO. 56. (U)
JAN 68 12P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY CONTROL, SUPPLY DEPOTS,
RECORDS, MALFUNCTIONS, MANAGEMENT PLANNING,
ERRORS, EFFICIENCY, MEASUREMENT, FREQUENCY,
STANDARDS, DATA PROCESSING SYSTEMS,
MAINTENANCE (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, MRO(MATERIAL RELEASE ORDER),
MATERIAL RELEASE ORDERS, MRO DENIAL RATES (U)

A MATERIEL RELEASE ORDER (MRO) IS A REQUIREMENT
PLACED BY AN INVENTORY CONTROL POINT ON A STORAGE
ACTIVITY TO SHIP QUANTITIES OF STOCK TO FILL A
SPECIFIC REQUISITION. IF THE STORAGE ACTIVITY DOES
NOT PHYSICALLY HAVE, OR CANNOT LOCATE, THE REQUIRED
ITEM THE RESULT IS A MATERIEL RELEASE DENIAL. A
MATERIEL RELEASE DENIAL ALSO OCCURS WHEN THE REQUIRED
ITEM IS ON HAND, BUT IN INSUFFICIENT QUANTITY TO MEET
THE MRO REQUIREMENT. A MATERIEL RELEASE DENIAL
REQUIRES THE ISSUANCE OF ANOTHER MRO, THUS
MULTIPLYING PAPER WORK AND DELAYING THE FILLING OF
THE REQUISITION. IT ALSO REQUIRES THE STORAGE
ACTIVITY TO TAKE A SPECIAL INVENTORY AND REPORT THE
RESULTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 100 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
REQUISITION REJECTION RATES. LMI REF. NO.
57.

(U)

JAN 68 11P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY, ABUNDANCE, INEQUALITIES,
ERRORS, PERFORMANCE(HUMAN), EFFICIENCY,
QUALITY CONTROL, MAINTENANCE,
PROGRAMMING(COMPUTERS), DOCUMENTATION,
MEASUREMENT, FREQUENCY, STANDARDS, DATA
PROCESSING SYSTEMS, MODIFICATION KITS, PERSONNEL
MANAGEMENT

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, REQUISITIONS, REQUISITION REJECTION
RATES, OBJECTIVES

(U)

THE REQUISITION REJECTION RATE PROVIDES A MEASURE
OF THE STATE OF PERSONNEL TRAINING AND EFFICIENCY AT
ALL LEVELS IN THE SUPPLY SYSTEM, AS WELL AS OF THE
INFORMATION SYSTEM SUPPORTING THE REQUISITION
PROCESS. HIGH REJECTION RATES INDICATE A
SUBSTANTIAL DEGREE OF HUMAN ERROR. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 101 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
THEATER RESERVE STOCK STATUS; AUTHORIZED VS. ON
HAND. LMI REF. NO. 58. (U)
JAN 68 12P

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CPST;
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), STOCK LEVEL CONTROL, OPERATIONAL
READINESS, MILITARY REQUIREMENTS, STANDARDS,
MAINTENANCE, STATISTICAL DATA (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, *RESERVE STOCKS (U)

THE INDICATOR PROVIDES CURRENT INFORMATION ON THE
STATUS OF RESERVE STOCKS IN TERMS OF REQUIREMENTS,
THE ON-HAND AND UN-ORDER POSITION AND THEIR
SERVICEABILITY. MEASUREMENTS ARE PROVIDED FOR TWO
CATEGORIES OF RESERVE STOCKS: STOCK FUND AND NON-
STOCK FUND. THESE CATEGORIES ARE FURTHER
STRATIFIED BY MATERIEL CATEGORIES IN THE SECONDARY
PRESENTATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD#679 102 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
SUPPLY SYSTEM ORDER SHIP TIME. LMI REF. NO.
S9.

(U)

JUN 68 22P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), DISTRIBUTION, SCHEDULING, STOCK
LEVEL CONTROL, OPERATIONAL READINESS, STANDARDS,
MILITARY REQUIREMENTS, STATISTICAL DATA (U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, ZERO BALANCES (U)

THE INDICATOR MEASURES ORDER-SHIP TIME PERFORMANCE
RELATED TO ESTABLISHED STANDARDS AT EACH LEVEL OF
SUPPLY. MEASUREMENTS CAN ALSO BE PROVIDED TO SHOW
PERFORMANCE AT SELECTED SEGMENTS OF THE TOTAL ORDER-
SHIP TIME CHAIN. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 103 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
REQUISITION VOLUME. LMI REF. NO. 510. (U)
MAY 68 12P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), STOCK LEVEL CONTROL, OPERATIONAL
READINESS, MILITARY REQUIREMENTS, DATA PROCESSING
SYSTEMS, DISTRIBUTION, MAINTENANCE, STATISTICAL
DATA, STANDARDS (U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, REQUISITIONS (U)

THE INDICATOR A MEASUREMENT OF SUPPLY SYSTEMS
WORKLOAD IN TERMS OF VOLUME OF DEMANDS
(REQUISITIONS OR REQUESTS), AT EACH SUPPLY LEVEL
BY ISSUE PRIORITY GROUP (IPG). IT ALSO
PROVIDES A MEASUREMENT OF THE DISTRIBUTION OF ISSUE
PRIORITY DESIGNATORS (IPDS) AGAINST THE
AUTHORIZED STOCKAGE LIST (ASL) AND FRINGE
ITEM DEMANDS FOR IPGS I AND II, INDIVIDUALLY,
AND IPGS III AND IV, COMBINED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD#679 105 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
PROPERTY DISPOSAL PROGRAMS. LMI REF. NO.
SVI.

(U)

MAR 68 9P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), STOCK LEVEL CONTROL, DISTRIBUTION,
VALUE ENGINEERING, COSTS, STATISTICAL DATA,
STANDARDS

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, SURPLUS, DOLLAR VALUE

(U)

THE INDICATOR MEASURES THE DOLLAR VALUE OF FOREIGN
EXCESS STOCKS ON HAND IN ARMY PROPERTY DISPOSAL
YARDS AND RELATES THIS VALUE TO AN ESTABLISHED GOAL.
AS THE GOAL IS RELATED TO TIME REQUIRED FOR
DISPOSAL, A MEASUREMENT OF THE PROMPTNESS WITH WHICH
DISPOSAL ACTION TAKES PLACE IS PROVIDED.
(AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 104 5/11 15/6
AMERICAN POWER JET CO RIDGEFIELD N J
LAUNDRY TURNAROUND TIME. LMI REF. NO.
SV2.
DEC 67 12P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), LAUNDERING, MILITARY PERSONNEL,
HOSPITALS, MILITARY REQUIREMENTS, STANDARDS,
STATISTICAL DATA, EFFICIENCY, SCHEDULING
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, DRY CLEANING, TURNAROUND TIME

(U)

(U)

U.S. ARMY LAUNDRY AND DRYCLEANING PLANTS ARE
ESTABLISHED PRIMARILY TO SUPPORT THE REQUIREMENTS OF
ENLISTED MEN AND MEDICAL TREATMENT FACILITIES.
PROBLEMS WHICH CREATE EXCESSIVE LAUNDRY AND
DRYCLEANING TURNAROUND TIME ARE RELATED TO WORKLOAD
AND CAPABILITY, AND ARE MOST FREQUENTLY ENCOUNTERED
DURING THE HOT SUMMER MONTHS. CURRENT INFORMATION
MUST BE AVAILABLE FOR PROMPT CORRECTIVE ACTION, IF
REQUIRED. THE INDICATOR PROVIDES A MEASUREMENT FOR
LAUNDRY AND DRYCLEANING TURNAROUND TIME.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD#679 107 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
COMMISSARIES: (1) SALES/INVENTORY RATIO,
(2) PERSONNEL COST/SALES RATIO, LMI REF.
NO. 5V3.
MAY 68 ISP

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), COMMERCE, EFFICIENCY, OPERATION,
PERSONNEL, COSTS, STANDARDS, STATISTICAL
ANALYSIS, INVENTORY CONTROL

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, COMMISSARIES

(U)

THE MEASURES OF PERFORMANCE ADOPTED IN THE
INDICATOR PROVIDE A BROAD OVERVIEW OF COMMISSARY
OPERATIONS. (AUTHOR)

(U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 108 15/5 13/6 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
COMMITTED VS. AVAILABLE MILITARY TRANSPORTATION.
LMI REF. NO. T1.
MAR 68 11P

(U)

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFSTI
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), ARMED FORCES TRANSPORTATION, MILITARY
REQUIREMENTS, ABUNDANCE, EFFICIENCY, ARMY
EQUIPMENT, VEHICLES, COST EFFECTIVENESS,
MAINTENANCE, MEASUREMENT, PROBLEM SOLVING,
ANALYSIS OF VARIANCE, FREQUENCY, STANDARDS,
DATA PROCESSING SYSTEMS, MILITARY REQUIREMENTS,
MANAGEMENT PLANNING

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, COMMITTED MILITARY TRANSPORTATION,
AVAILABLE MILITARY TRANSPORTATION

(U)

THIS INDICATOR MEASURES THE EFFICIENCY WITH WHICH
AVAILABLE MILITARY LINEHAUL TRANSPORTATION, FOR WHICH
THERE IS COMMITMENT AUTHORIZATION, IS USED.
SPECIFICALLY, IT MEASURES THE READINESS OF SUCH
TRANSPORTATION EQUIPMENT AND THE EXTENT TO WHICH
READY AND AVAILABLE VEHICLES ARE UTILIZED.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD 679 109 15/5 13/6 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
MILITARY VS. COMMERCIAL CARGO MOVEMENTS, AND
COMMERCIAL MOVEMENT COSTS. LMI REF. NO.
T2.

(U)

DEC 67 18P

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), ARMED FORCES TRANSPORTATION, MILITARY
FACILITIES, COST EFFECTIVENESS, OPTIMIZATION,
PERSONNEL MANAGEMENT, CARGO VEHICLES,
EFFECTIVENESS, MAINTENANCE,
RANGES(DISTANCE), GRAPHICS, MEASUREMENT,
STANDARDS, DATA PROCESSING SYSTEMS, REPORTS,
MANAGEMENT PLANNING

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, TONNAGE, INDUSTRIAL FACILITIES,
COMPARATIVE STUDIES

(U)

THIS INDICATOR MEASURES THE TOTAL TONS MOVED BY
MILITARY LINEHAUL (UNDER COMMITMENT AUTHORITY)
AND COMMERCIAL TRANSPORTATION. IT IDENTIFIES
SEPARATELY THAT PORTION OF THE COMMERCIAL
TRANSPORTATION WHICH IS NOT MILITARY HIGHWAY
COMPATIBLE AND PROVIDES COST DATA ON COMMERCIAL
HIGHWAY MOVEMENTS. ADDITIONALLY, DATA FOR
COMMERCIAL HIGHWAY MOVEMENTS ARE STRATIFIED BY LONG
HAUL AND SHORT HAUL. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-679 113 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
CLASS I, III, V SUPPLY EXPENDITURES VERSUS ON
HAND AND RECEIPTS. PART A - CLASS I SUPPLIES.
LMI REF. NO. SC1.
JAN 68 10P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO PART C, AD-679 114.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY CONTROL, MONEY, ARMED
FORCES OPERATIONS, MANAGEMENT PLANNING,
MAINTENANCE, CORRELATION TECHNIQUES, GRAPHICS,
MEASUREMENT, STANDARDS, DATA PROCESSING SYSTEMS,
FREQUENCY, REPORTS, MILITARY REQUIREMENTS

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, CLASS I SUPPLIES, SUPPLY EXPENDITURES

(U)

CLASS I, 3 AND 5 STOCKS PROVIDE THE BASIC RESOURCES
REQUIRED FOR CONTINUED OPERATION. THERE ARE MAJOR
DIFFERENCES IN THE MANAGEMENT OF THESE CLASSES OF
SUPPLIES, WITH STAFF RESPONSIBILITY FOR EACH CLASS
ASSIGNED TO DIFFERENT OFFICES. THEREFORE, THE
SUCCEEDING SECTIONS OF THIS LMI GUIDE HAVE BEEN
BROKEN INTO THREE MAJOR PARTS, ONE FOR EACH CLASS OF
SUPPLY. FOR EACH PART, THE LMI PROVIDES THE
RELATIONSHIP BETWEEN RECEIPTS, ISSUES, ASSETS AND
REQUIREMENTS OVER TIME. FROM THESE DATA, THE
POSITION OF THE COMMAND WITH RELATION TO THE SUPPLY
STATUS OF THESE IMPORTANT COMMODITIES CAN BE
DETERMINED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-679 114 15/5 5/1
AMERICAN POWER JET CO RIDGEFIELD N J
CLASS I, III, V SUPPLY EXPENDITURES VERSUS ON
HAND AND RECEIPTS. PART C - CLASS V SUPPLIES.
LMI REF. NO. SCI. (U)
JAN 68 11P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO PART A: AD-679 113.

DESCRIPTORS: (*LOGISTICS, *MANAGEMENT CONTROL
SYSTEMS), INVENTORY CONTROL, MONEY, MANAGEMENT
PLANNING, MAINTENANCE, MEASUREMENT, GRAPHICS,
FREQUENCY, STANDARDS, PREDICTIONS, DATA
PROCESSING SYSTEMS, REPORTS (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT INDICATORS,
*MANAGEMENT INFORMATION SYSTEMS, MAINTENANCE
MANAGEMENT, SUPPLY EXPENDITURES, CLASS 5 SUPPLIES (U)

THIS INDICATOR PROVIDES THE RELATIONSHIP BETWEEN
RECEIPTS, ISSUES, ASSETS AND REQUIREMENTS OF CLASS 5
STOCKS OVER TIME. FROM THESE DATA, THE POSITION OF
THE COMMAND WITH RELATION TO THE SUPPLY STATUS OF
THESE IMPORTANT COMMODITIES CAN BE DETERMINED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-680 706 15/5 9/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
COMPUTER-AIDED SHIP SPECIFICATIONS.
67 21P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT,
SPECIFICATIONS), STANDARDIZATION,
PROGRAMMING (COMPUTERS), MANAGEMENT CONTROL
SYSTEMS, DATA STORAGE SYSTEMS, COST EFFECTIVENESS,
QUESTIONNAIRES, ADVANCED PLANNING, SYMPOSIA,
INFORMATION RETRIEVAL
IDENTIFIERS: SHIPBUILDING, DATA MANAGEMENT,
*MANAGEMENT INFORMATION SYSTEMS

(U)

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THE REPORT DESCRIBES A COMPUTERIZED SYSTEM WHEREBY
STANDARDIZATION OF SHIPBUILDING SPECIFICATIONS IS
ACCOMPLISHED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 707 15/5 13/10 9/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
THE CONCEPT FORMULATION DATA BANK, (U)
67 17P LISNYK, JAMES A. ;
JOHNSON, ROBERT S. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, *DATA PROCESSING
SYSTEMS), SYSTEMS ENGINEERING, FEASIBILITY
STUDIES, COST EFFECTIVENESS, MARINE ENGINEERING,
FIRE CONTROL SYSTEMS, MANPOWER STUDIES,
PERFORMANCE(ENGINEERING), ECONOMICS, (U)
INFORMATION RETRIEVAL, SYMPOSIA
IDENTIFIERS: DATA MANAGEMENT, SHIPBUILDING, (U)
*MANAGEMENT INFORMATION SYSTEMS (U)

THE REPORT DESCRIBES THE FUNCTION OF A SUB-SYSTEM
DATA BANK AND ITS IMPLEMENTATION INTO NAVAL LOGISTIC
SYSTEMS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-660 708

15/5

NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
DEFENSE CONTRACT ADMINISTRATION SERVICES QUALITY
ASSURANCE TECHNICAL DATA PROGRAM,

(U)

67

8P

WEINTRAUB, DAVID D. I

UNCLASSIFIED REPORT

DESCRIPTORS: (ARMED FORCES PROCUREMENT,
• CONTRACTS), QUALITY CONTROL, INDUSTRIAL
PRODUCTION, ECONOMICS, COST EFFECTIVENESS,
MANAGEMENT CONTROL SYSTEMS, PRODUCTION CONTROL,
SYMPOSIA

(U)

IDENTIFIERS: DCAS (DEFENSE CONTRACT
ADMINISTRATION SERVICES), DATA MANAGEMENT,
• MANAGEMENT INFORMATION SYSTEMS

(U)

THE REPORT OUTLINES BASIC RESPONSIBILITIES REQUIRED
BY GOVERNMENT QUALITY CONTROL PERSONNEL IN ORDER TO
ASSURE CONTRACTUAL COMPLIANCE WITH TECHNICAL DATA
SUBMISSION.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-680 709 15/5 5/1
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
DESIGN DISCLOSURE FORMAT (DDF) AND DATA MANAGEMENT, (U)
67 27P SANDERSON, JOHN V. ;
SUSLOWITZ, ROBERT J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, DOCUMENTATION),
(*MANAGEMENT ENGINEERING, NAVAL EQUIPMENT),
NAVAL PROCUREMENT, DESIGN, STANDARDS,
SYMPOSIUM (U)
IDENTIFIERS: DATA MANAGEMENT, MANAGEMENT
INFORMATION SYSTEMS, DDF (DESIGN DISCLOSURE
FORMULATION), DESIGN DISCLOSURE FORMULATIONS (U)

THE DEVELOPMENT EFFORTS OF DIVERSE COMPLEX NAVY
SYSTEMS AND EQUIPMENTS REQUIRE DIVERSE ACQUISITION-
MANAGEMENT STRUCTURES. CONSEQUENTLY, TECHNICAL
COMMUNICATIONS MUST BE GEARED TO ACCOMMODATE THESE
DIVERSITIES. TECHNICAL COMMUNICATION, EFFECTIVELY
KEYED TO ACQUISITION-MANAGEMENT STRUCTURES REQUIRES
THAT THE PRESENTATION OF INFORMATION HAVE A HIGH
DEGREE OF COMMONALITY AT ALL SYSTEM LEVELS IN ORDER
TO FORM HIERARCHICAL SUBSYSTEM ORGANIZATIONS FOR
MANAGEMENT USE. SINCE SYSTEM ACQUISITION IS TIME
DEPENDENT, TECHNICAL COMMUNICATION MUST ALSO BE TIED
TO THE DEVELOPMENT LIFE CYCLE AND MUST GROW WITH THE
SYSTEM. ADDITIONAL NEED FOR COMMONALITY AND THE
TIME DEPENDENT UPDATING OF INFORMATION IS REFLECTED
IN THE FACT THAT MANY OPERATING SYSTEMS DO NOT
EXPERIENCE FINITE PHASE-IN PHASE-OUT INCREMENTS, BUT
RATHER GROW AND CHANGE WITH CHANGING REQUIREMENTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVQ1

AD-680 710 15/5 5/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
DEVELOPMENT STANDARD: DATA REQUIREMENT
DESCRIPTIONS, DATA DISTRIBUTIONS LISTS, AND
DATA REQUIREMENT JUSTIFICATIONS.
67 38P

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT,
*DOCUMENTATION), MANAGEMENT CONTROL SYSTEMS,
LOGISTICS, INFORMATION RETRIEVAL, RECORDS,
MAINTENANCE, SPECIFICATIONS, CONTRACTS,
STANDARDS, SYMPOSIA
IDENTIFIERS: DATA MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS, DATA ACQUISITION,
*PROVISIONING DOCUMENTATION

(U)

(U)

THIS REPORT DISCUSSES ONE OF SEVERAL DEVELOPMENTAL
EFFORTS UNDERWAY WITHIN THE NAVAL SHIP SYSTEMS
COMMAND TO IMPROVE MANAGEMENT AND ACQUISITION OF
TECHNICAL DATA AND INFORMATION: NAMELY, A DATA
MANAGEMENT SYSTEM, BEING DEVELOPED BY THE PORT
HUENEME DIVISION OF THE NAVAL SHIP
ENGINEERING CENTER UNDER THE SPONSORSHIP OF THE
TECHNICAL DATA MANAGEMENT BRANCH, CODE
6032. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AU-680 711 15/5 5/1
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
DEVELOPMENT OF A SURFACE 3-M COMMON LANGUAGE FOR
ALL MANAGEMENT LEVELS. (U)
67 IIP KAUFFMAN, HAL A. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, MAINTENANCE),
(*MAINTENANCE, MANAGEMENT ENGINEERING),
MANAGEMENT CONTROL SYSTEMS, INFORMATION RETRIEVAL,
MATERIAL CONTROL, RECORDS, SCHEDULING, CODING,
IDENTIFICATION, SYMPOSIA (U)
IDENTIFIERS: *JM SYSTEM, *MANAGEMENT
INFORMATION SYSTEMS, MDCS(MAINTENANCE DATA
COLLECTION SYSTEM), DATA MANAGEMENT (U)

THE REPORT DESCRIBES DEVELOPMENT AND IMPLEMENTATION
OF THE 3-M SYSTEM RELATIVE TO NAVAL
LOGISTICS. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-680 712 15/5 13/10 9/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
MANAGING THE WEIGHTS AND VERTICAL CENTER OF GRAVITY
DATA REPORTING SYSTEM, (U)
67 14P CHAMBLIN, F. J. I

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, DATA PROCESSING
SYSTEMS), (*NAVAL VESSELS (COMBATANT), CENTER
OF GRAVITY), PROCUREMENT, LEAD TIME,
INFORMATION RETRIEVAL, MARINE ENGINEERING, SHIP
AUXILIARY EQUIPMENT, MOMENTS, LOGISTICS,
REPORTS, PUNCHED CARDS, SYMPOSIA (U)
IDENTIFIERS: DATA MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS, DATA ACQUISITION (U)

THE WEIGHTS AND VERTICAL CENTERS OF GRAVITY
REPORTING SYSTEM WAS ORIGINALLY MAINTAINED ON A CARD
FILE. UPON RECEIPT OF A LIST OF GOVERNMENT
FURNISHED EQUIPMENT TO BE INSTALLED ABOARD SHIP,
THE APPLICABLE CARDS WOULD BE PULLED AND THE
INFORMATION TYPED ON SHEETS FOR DISTRIBUTION. THIS
FILE SOON BECAME UNMANAGEABLE BECAUSE OF ITS SIZE AND
HUMAN ERROR FACTOR. AN ADP SYSTEM WAS DEVELOPED
IN CONJUNCTION WITH NMCSA AND THE F COG
LOGISTICS CODE. THE SYSTEM USES A MASTER
EQUIPMENT FILE WHICH WAS DEVELOPED FROM THE OLD CARD
FILE AND TWO FILES FROM THE LOGISTICS CODE WHICH
CONTAIN SHIP EQUIPMENT REQUIREMENTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 713 15/5 5/1
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
MIL-STD-555.

(U)

67 12P HAAS, JOHN ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT,
SPECIFICATIONS), CONFIGURATION, MANAGEMENT
CONTROL SYSTEMS, MATERIAL CONTROL, INVENTORY
CONTROL, MILITARY PUBLICATIONS, STANDARDS,
SYMPOSIA

(U)

IDENTIFIERS: CONFIGURATION MANAGEMENT,
*MANAGEMENT INFORMATION SYSTEMS

(U)

THE REPORT DESCRIBES THE IMPLEMENTATION OF MIL-
STD-555 AND ITS FUNCTION RELATIVE TO NAVAL
LOGISTICS.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 714 15/S 5/1
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
MILITARY AND FEDERAL SPECIFICATIONS AND STANDARDS. (U)
67 16P HASKIN, MARGARET P. I

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMED FORCES PROCUREMENT,
*SPECIFICATIONS), MILITARY PUBLICATIONS,
STANDARDS, STANDARDIZATION, DOCUMENTATION,
LOGISTICS, GOVERNMENT PROCUREMENT, ADVANCED
PLANNING, SYMPOSIA (U)
IDENTIFIERS: DATA MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS (U)

THIS REPORT DISCUSSES MILITARY AND FEDERAL
SPECIFICATIONS, STANDARDS AND RELATED DOCUMENTS, AS A
PART OF THE GOVERNMENT-FURNISHED DATA PACKAGE.
THESE DOCUMENTS ARE THE MEANS OF COMMUNICATION USED
BY GOVERNMENT ACTIVITIES TO CONVEY THEIR
REQUIREMENTS FOR MATERIEL AND SERVICES TO SUPPLIERS
AND POTENTIAL SUPPLIERS AND TO STANDARDIZE THESE
REQUIREMENTS AS MUCH AS POSSIBLE. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 716 15/6
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
NAVY INITIAL SUPPORT REQUIREMENTS (NISR-1), (U)
67 16P DUANE, J. D. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PROCUREMENT,
SPECIFICATIONS), INSTRUCTION MANUALS,
SYMPOSIA, MILITARY REQUIREMENTS, CONTRACTS,
STANDARDS, MODIFICATION KITS, EFFECTIVENESS (U)
IDENTIFIERS: NAVY INITIAL SUPPORT REQUIREMENTS,
*MANAGEMENT INFORMATION SYSTEMS, OBJECTIVES (U)

THE NAVY INITIAL SUPPORT REQUIREMENT
(NISR-1) IS A PROVISIONING SPECIFICATION
PRESCRIBING THE PROCEDURES, FORMATS, TERMS, AND
CONDITIONS GOVERNING THE PROVISIONING OF END ITEMS OF
EQUIPMENTS PURCHASED BY AN ACTIVITY OF THE NAVAL
MATERIAL COMMAND (NMC). IT SPECIFIES THE
ACTIONS TO BE PERFORMED AND THE SCHEDULES TO BE MET.
IT FURNISHES THE INSTRUCTIONS FOR THE PREPARATION
OF PROVISIONING TECHNICAL DOCUMENTATION. IT
DELINEATES THE RANGE OF DOCUMENTATION AND
REQUIREMENTS THAT THE HARDWARE SYSTEMS COMMAND/
PROJECT MANAGER MAY PRESCRIBE. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-660 722 15/5
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
RELATIONSHIP OF TECHNICAL DATA MANAGEMENT TO
INTEGRATED LOGISTIC SUPPORT, (U)
SEP 67 18P SEITH, E. J. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, DOCUMENTATION),
MANAGEMENT PLANNING, MAINTENANCE, NAVAL
PROCUREMENT, COST EFFECTIVENESS, FEEDBACK,
SYMPOSIA (U)
IDENTIFIERS: DATA MANAGEMENT, ILS (INTEGRATED
LOGISTIC SUPPORT), INTEGRATED LOGISTIC
SUPPORT, MANAGEMENT INFORMATION SYSTEMS, JM
SYSTEM (U)

TODAY BECAUSE OF THE COMPLEXITY OF NAVAL SHIP
SYSTEMS AND THE HIGH COST OF THESE SYSTEMS, THERE IS
A REAL NEED FOR AN INTEGRATED AND SYSTEMATIC APPROACH
TO THE ACQUISITION OF THE RIGHT KINDS AND AMOUNTS OF
DATA THE NAVY NEEDS FOR ACCOMPLISHING ITS MISSION.
WHEN PLANNING A SYSTEM ACQUISITION, THEREFORE, IT
IS IMPORTANT TO REALIZE THAT DATA "PACKAGES" ARE
INTENDED FOR SPECIFIC PURPOSES. THE OBJECTIVE OF
THIS PAPER IS TO EXPLAIN OR DEMONSTRATE HOW ILS
OBJECTIVES, THROUGH THE APPLICATION OF ILS
PROCEDURES ARE RELATED TO, AND COMPLEMENT, OBJECTIVES
OF TECHNICAL DATA MANAGEMENT. (AUTHOR) (U)

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DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 723 15/5 5/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
REPAIR PARTS ASSEMBLIES ACQUISITION, (U)
67 20P LERNER, ROBERT M. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, DOCUMENTATION),
(*SPARE PARTS, PROCUREMENT), DATA PROCESSING
SYSTEMS, ELECTRONIC EQUIPMENT, PROCUREMENT,
QUALITY CONTROL, MAINTENANCE, MAINTAINABILITY,
RELIABILITY, MATERIAL CONTROL, MANAGEMENT
CONTROL SYSTEMS, INFORMATION RETRIEVAL,
SYMPOSIA (U)
IDENTIFIERS: *PROVISIONING DOCUMENTATION,
*MANAGEMENT INFORMATION SYSTEMS, DATA MANAGEMENT (U)
THE REPORT DELINEATES DOCUMENTATION REQUIREMENTS
FOR LOGISTIC SUPPORT OF NAVAL ELECTRONIC EQUIPMENT. (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 724 13/10.1 15/5 5/1
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
TECHNICAL DATA MANAGEMENT PROBLEMS AND PROCEDURES
CONCERNING ENGINEERING SUPPORT OF MAJOR SUBMARINE
OVERHAULS, (U)

07 20P PAGE, M. F. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*SUBMARINES, *MAINTENANCE),
(*LOGISTICS, SUBMARINES), SHIPYARDS,
PROCUREMENT, MANAGEMENT CONTROL SYSTEMS,
MECHANICAL DRAWINGS, SPECIFICATIONS, QUALITY
CONTROL, SCHEDULING, TECHNICAL INFORMATION
CENTERS, MATERIAL CONTROL, INFORMATION RETRIEVAL,
SYMPOSIA (U)

IDENTIFIERS: DATA MANAGEMENT, PERA (PLANNING AND
ENGINEERING FOR REPAIRS AND ALTERATIONS),
PERA DIVISION, *MANAGEMENT INFORMATION SYSTEMS,
PERT, *PROVISIONING MANAGEMENT (U)

THE REPORT DESCRIBES METHODS UTILIZED TO MINIMIZE
TURN AROUND TIME IN SUBMARINE REFURBISHMENT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 725 15/5 9/2 5/2
NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
A TIME-SHARED AUTOMATIC DATA RETRIEVAL SYSTEM FOR
MANAGING THE NAVAL ELECTRONIC EQUIPMENT FIELD CHANGE
IDENTIFICATION GUIDE. (U)
67 16P LAMBERT-G, H. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, DOCUMENTATION),
(*INFORMATION RETRIEVAL, DIGITAL SYSTEMS),
AUTOMATIC, ELECTRONIC EQUIPMENT,
PROGRAMMING (COMPUTERS), TIME SHARING,
RESPONSE, PUNCHED CARDS, EFFECTIVENESS, COST
EFFECTIVENESS, SEQUENCES, DATA PROCESSING
SYSTEMS (U)
IDENTIFIERS: DATA MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS (U)

THE ADVENT OF ADP-CONTROLLED PRODUCTION OF
TECHNICAL PUBLICATIONS HAS PROVIDED ALL KINDS OF
BENEFITS IN THE FORM OF COST-EFFECTIVENESS,
EFFICIENCY, AND ACCURACY. HOWEVER, THE CHIEF
PROBLEM ENCOUNTERED IN SUCH TECHNIQUES HISTORICALLY
HAS BEEN THE KEYPUNCH OPERATION. IT REQUIRES THE
USE OF VENDORS, WITH THE CONCOMITANT PROBLEMS OF
COST, TRANSPORTATION, AND THE CONSPICUOUS ABSENCE OF
HIGHLY TOUTED ACCURACIES. ALSO, THE INCREASING
USAGE OF GOVERNMENT COMPUTER FACILITIES HAS BEGUN
TO PRESENT PROBLEMS WHEN A PUBLICATION WITH A
FREQUENT REVISION CYCLE IS INVOLVED. TAKING STOCK
OF THE FOREGOING PROBLEMS, THIS SECTION SOUGHT SOME
WAY TO SOLVE THEM. A NEW DATA RETRIEVAL SYSTEM HAS
BEEN ADOPTED TO PROVIDE A FAST-RESPONSE CAPABILITY BY
MEANS OF AN ON-LINE, TIME-SHARED COMPUTER IN WHICH
DATA ARE ACCESSED BY AN OPERATOR TERMINAL LOCATED
RIGHT IN THE SECTION OFFICE. THE FLOW OF INPUT
AND OUTPUT DATA ASSOCIATED WITH THE FIELD CHANGE
PROGRAM HAS BECOME MANAGEABLE AND ADAPTED TO A
STREAMLINED OPERATION THROUGH USE OF THE NEW SYSTEM.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 726 15/5 5/1

NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C
TECHNICAL DATA MANAGEMENT SYMPOSIUM HELD AT
WASHINGTON, D. C., SEPTEMBER 12-14, 1967, ON
UTILIZATION OF DATA FROM THE MAINTENANCE DATA
COLLECTION SUB-SYSTEM (MDCS),

(U)

67 22P SIMPSON, W. L. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, *MAINTENANCE),
(*MANAGEMENT CONTROL SYSTEMS, NAVAL EQUIPMENT),
LOGISTICS, MANAGEMENT ENGINEERING, DECISION
MAKING, COST EFFECTIVENESS, RELIABILITY,
MAINTAINABILITY, DOCUMENTATION, REPORTS,
STANDARDIZATION, REPLACEMENT THEORY, INFORMATION
RETRIEVAL, SYMPOSIA

(U)

IDENTIFIERS: MDCS(MAINTENANCE DATA COLLECTION
SUBSYSTEM), MAINTENANCE DATA COLLECTION
SUBSYSTEM, J-M SYSTEM, MANAGEMENT INFORMATION
SYSTEMS, *PROVISIONING MANAGEMENT

(U)

THE REPORT DESCRIBES, IN GENERAL TERMS, THE
UTILIZATION OF THE NAVY MAINTENANCE DATA
COLLECTION SUB-SYSTEM BY FLEET PERSONNEL.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 921 15/5 5/1

PLANNING RESEARCH CORP LOS ANGELES CALIF
THE ARMY LOGISTICS STUDY SYSTEM.

(U)

DESCRIPTIVE NOTE: FINAL REPT. 1 JUN-30 SEP 66.

SEP 66 149P DAVIES, ALAN ; GOODROW, EUGENE

MCQUIE, ROBERT ; MARGAN, DALE ; POND, JOHN ;

REPT. NO. PRC R-873

CONTRACT: DA-49-092-ARO-155

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, MANAGEMENT CONTROL
SYSTEMS), MANAGEMENT ENGINEERING, MANAGEMENT
PLANNING, SCHEDULING, ARMY BUDGETS, CONTRACTS,
MANPOWER STUDIES, DEPLOYMENT, COST
EFFECTIVENESS, ARMY PERSONNEL, OFFICER PERSONNEL

(U)

IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
*LOGISTICS MANAGEMENT

(U)

THE REPORT DESCRIBES THE STUDIES, WORKLOAD,
PROCEDURES, AND ORGANIZATIONS OF THE ARMY LOGISTICS
STUDIES SYSTEM. A MASTER PROGRAM OF STUDY PROJECTS
IS PROPOSED. ALTERNATIVE ORGANIZATIONAL CHANGES
ARE EXAMINED AND AN ORGANIZATION TO AUGMENT
DCSLOG'S EFFORT IS RECOMMENDED. THE TYPES OF
PERSONNEL NEEDED TO STAFF THIS ORGANIZATION ARE
DISCUSSED. PROCEDURES FOR DCSLOG AND CHIEF OF
STAFF GUIDANCE OF THIS EFFORT ARE DESCRIBED.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 934 5/1 12/2
FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS
ENGINEERING
AN INDUSTRIAL DYNAMICS STUDY OF THE FACILITIES
PLANNING PROCESS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT..
NOV 67 191P GUTIERREZ, LUIS TEODORO I
REPT. NO. THEMIS-UF-TR-2
CONTRACT: DAHCO4-68-C-0002
PROJ: DA-2-T-014501-B-81-B
MONITOR: ARUD T-1.15-RT

UNCLASSIFIED REPORT

DESCRIPTORS: (*INDUSTRIAL PLANTS, MANAGEMENT
PLANNING), (*MANAGEMENT PLANNING, OPERATIONS
RESEARCH), DECISION MAKING, MATHEMATICAL MODELS,
FLOW CHARTING, MATERIAL CONTROL, HANDLING,
SYSTEMS ENGINEERING, ECONOMICS, COMPUTER
PROGRAMS, THESES (U)
IDENTIFIERS: DYNAMO (DYNAMIC MODELS), DYNAMO
COMPUTER PROGRAM, CSMP (CONTINUOUS SYSTEM
MODELING PROGRAM), CSMP COMPUTER PROGRAM,
COMPUTERIZED SIMULATION, *INDUSTRIAL ENGINEERING,
THEMIS PROJECT, MANAGEMENT INFORMATION SYSTEMS (U)

THIS IS A STUDY ON THE DYNAMICS OF THE FACILITIES
PLANNING PROCESS AND ITS INFLUENCE ON THE POTENTIAL
GROWTH OF THE ORGANIZATION. THE INVESTIGATION IS
CARRIED OUT BY MEANS OF AN INDUSTRIAL DYNAMICS
SIMULATION MODEL. IBM'S CSMP (CONTINUOUS
SYSTEM MODELING PROGRAM) IS USED AS THE
SIMULATION LANGUAGE. THE RESULTS OF THE
INVESTIGATION INDICATE THAT, ALL OTHER THINGS BEING
EQUAL, THE PERFORMANCE OF THE FACILITIES PLANNING
FUNCTION IS CRITICAL IN DETERMINING THE ACTUAL GROWTH
PATTERN OF THE ORGANIZATION. IT IS FURTHER
CONCLUDED THAT THE INDUSTRIAL DYNAMICS FORMULATION OF
THE FACILITIES PLANNING PROBLEM SHOULD PROVE TO BE A
VALUABLE PLANNING TOOL TO THE PRACTICING INDUSTRIAL
ENGINEER. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 091 5/9

MILITARY TESTING ASSOCIATION

ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE

(20), FORT BENJAMIN HARRISON, INDIANAPOLIS.

INDIANA, 20-22 SEPTEMBER 1960: PROCEEDINGS.

SEP 60 84P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 3RD ANNUAL CONFERENCE,
AD-681 092.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
DATA PROCESSING SYSTEMS, PERFORMANCE TESTS, JOB
ANALYSIS, MILITARY FACILITIES, STATISTICAL
PROCESSES, TEST CONSTRUCTION (PSYCHOLOGY),
STANDARDS, TRAINING, PROBLEM SOLVING,
CLASSIFICATION, SUPERVISORY PERSONNEL,
EFFECTIVENESS, DOCUMENTATION, PUNCHED CARDS,
PROGRAMMING (COMPUTERS)

(U)

IDENTIFIERS: MILITARY TESTING ASSOCIATION,
*MANAGEMENT INFORMATION SYSTEMS, ENLISTED
PERSONNEL, EVALUATION, PROMOTIONS

(U)

A REPORT IS GIVEN ON THE SECOND ANNUAL CONFERENCE
OF ARMY, NAVY, AIR FORCE, MARINE CORPS,
AND COAST GUARD REPRESENTATIVES ON ENLISTED JOB
PROFICIENCY EVALUATION.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 092 5/9
MILITARY TESTING ASSOCIATION
ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE
(3RD), PERSONNEL LABORATORY, LACKLAND AIR FORCE
BASE, TEXAS, 23-26 OCTOBER 1961.
OCT 61 47P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 4TH ANNUAL CONFERENCE,
AD-681 093; AND 2ND ANNUAL CONFERENCE, AD-681 091.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
JOB ANALYSIS, PERFORMANCE TESTS, PROBLEM
SOLVING, CIVILIAN PERSONNEL, STANDARDS,
DOCUMENTATION, PROGRAMMING (COMPUTERS), DATA
PROCESSING SYSTEMS, TEST
CONSTRUCTION (PSYCHOLOGY)

(U)

IDENTIFIERS: ENLISTED PERSONNEL, EVALUATION,
MILITARY TESTING ASSOCIATION, *MANAGEMENT
INFORMATION SYSTEMS

(U)

A REPORT IS PRESENTED ON THE THIRD ANNUAL
CONFERENCE OF ARMY, NAVY, AIR FORCE, MARINE
CORPS, AND COAST GUARD REPRESENTATIVES ON
ENLISTED JOB PROFICIENCY EVALUATION.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 093 5/9
MILITARY TESTING ASSOCIATION
ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE
(4TH), U. S. NAVAL EXAMINING CENTER, GREAT
LAKES, ILL., OCT. 23-26, 1962. (U)
DESCRIPTIVE NOTE: FINAL REPT.
OCT 62 42P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 5TH ANNUAL CONFERENCE,
AD-681 094; AND 3RD ANNUAL CONFERENCE, AD-681 092.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
JOB ANALYSIS, LANGUAGE, LEADERSHIP,
PERSONALITY, MOTIVATION, TEST METHODS,
PERFORMANCE TESTS, DOCUMENTATION, STATISTICAL
PROCESSES, DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: JOB INFORMATION TESTS, ENLISTED
PERSONNEL, EVALUATION, OBJECTIVES, MILITARY
TESTING ASSOCIATION, *MANAGEMENT INFORMATION
SYSTEMS (U)

THE DOCUMENT REPORTS ON THE FOURTH ANNUAL
CONFERENCE OF ARMY, NAVY, AIR FORCE, MARINE
CORPS, AND COAST GUARD REPRESENTATIVES ON
ENLISTED JOB PROFICIENCY EVALUATION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 094 5/9

MILITARY TESTING ASSOCIATION
ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE
(5TH), U. S. COAST GUARD INSTITUTE,
GROTON, CONNECTICUT, AUGUST 1963. TESTING IS
SERIOUS BUSINESS.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

AUG 63 SUP WEYBREW, BENJAMIN B. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 6TH ANNUAL CONFERENCE,
AD-681 095; AND 4TH ANNUAL CONFERENCE, AD-681 093.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
JOB ANALYSIS, INEQUALITIES, SOURCES,
ACHIEVEMENT TESTS, TEST
CONSTRUCTION (PSYCHOLOGY),
PERFORMANCE (HUMAN), TEST METHODS, CURVE
FITTING, PERFORMANCE TESTS, APTITUDE TESTS,
CLASSIFICATION, SUPERVISION, STANDARDS,
STATISTICAL PROCESSES

(U)

IDENTIFIERS: ENLISTED PERSONNEL, EVALUATION,
MILITARY TESTING ASSOCIATION, *MANAGEMENT
INFORMATION SYSTEMS

(U)

THE DOCUMENT CONTAINS A REPORT ON THE FIFTH ANNUAL
CONFERENCE OF ARMY, NAVY, AIR FORCE, MARINE
CORPS, AND COAST GUARD REPRESENTATIVES ON
ENLISTED JOB PROFICIENCY EVALUATION.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 095 5/9

MILITARY TESTING ASSOCIATION
ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE
(6TH), FORT BENJAMIN HARRISON, INDIANAPOLIS,
INDIANA, 20-22 OCTOBER 1964: PROCEEDINGS.
OCT 64 195P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 7TH ANNUAL CONFERENCE,
AD-681 096; AND 5TH ANNUAL CONFERENCE, AD-681 094.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
TEST CONSTRUCTION(PSYCHOLOGY), RELIABILITY,
PROGRAMMING(COMPUTERS), PERFORMANCE TESTS,
TEST METHODS, JOB ANALYSIS, DOCUMENTATION,
SCHEDULING, STATISTICAL PROCESSES,
PSYCHOMETRICS

(U)

IDENTIFIERS: ENLISTED PERSONNEL, EVALUATION,
OBJECTIVES, MILITARY TESTING ASSOCIATION,
*MANAGEMENT INFORMATION SYSTEMS

(U)

THE MILITARY TESTING ASSOCIATION HAS
DEVELOPED INTO A POWERFUL INFLUENCE IN MILITARY
TESTING. THE PURPOSE OF THE ASSOCIATION IS TO
BRING TOGETHER ANNUALLY REPRESENTATIVES FROM THE
VARIOUS ARMED SERVICES TO DISCUSS AND EXCHANGE IDEAS
CONCERNING JOB PROFICIENCY EVALUATION OF ENLISTED
PERSONNEL. THE SIXTH ANNUAL CONFERENCE IS REPORTED
ON IN THIS DOCUMENT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 096 5/9

MILITARY TESTING ASSOCIATION
ANNUAL MILITARY TESTING ASSOCIATION CONFERENCE
(7TH), 6570TH PERSONNEL RESEARCH LABORATORY,
USAF, SAN ANTONIO, TEXAS, OCT 25-28, 1965:
PROCEEDINGS.

(U)

OCT 65 174P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO 8TH ANNUAL CONFERENCE,
AD-681 097; AND 6TH ANNUAL CONFERENCE, AD-681 095.

DESCRIPTORS: (*MILITARY PERSONNEL, PERSONNEL
MANAGEMENT), SYMPOSIA, MANAGEMENT PLANNING,
PROGRAMMING (COMPUTERS), PSYCHOMETRICS,
RELIABILITY, SUPERVISION, AUTOMATION, TEST
METHODS, TEACHING METHODS, PERFORMANCE TESTS,
MODIFICATION KITS, CONTROL SYSTEMS, CIVILIAN
PERSONNEL, CYBERNETICS

(U)

IDENTIFIERS: ENLISTED PERSONNEL, EVALUATION,
MILITARY TESTING ASSOCIATION, *MANAGEMENT
INFORMATION SYSTEMS, INVASION OF PRIVACY

(U)

THE DOCUMENT COVERS THE SEVENTH ANNUAL CONFERENCE
OF THE MILITARY TESTING ASSOCIATION. THE
CENTRAL THEME OF THE CONFERENCE WAS 'THE IMPACT
OF AUTOMATION TECHNIQUES ON PERSONNEL
EVALUATION', WITH A SUBSIDIARY THEME OF
'PSYCHOLOGICAL TESTING AND THE INVASION OF
PRIVACY'. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-681 347 5/1 9/4
CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE
INST
PROCESSING AND TRANSMITTING INFORMATION, GIVEN A
PAY-OFF FUNCTION. (U)
DESCRIPTIVE NOTE: DOCTORAL THESIS,
DEC 68 82P PHAM-HUU-TRI, HENRI MICHEL
REPT. NO. #MS1 WORKING PAPER-143
CONTRACT: NONK-233(75), NSF-G2041

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, *INFORMATION
THEORY), MOTIVATION, CODING, DECODING,
ECONOMICS, COSTS, STOCHASTIC PROCESSES,
THEOREMS, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS,
UTILITY FUNCTIONS (U)

AN INFORMATION SYSTEM IS DEFINED AS A CHAIN OF
INFORMATION SERVICES, ENCODING
(PROCESSING)...TRANSMITTING...DECODING
(DECIDING). EACH SERVICE IS A TRANSFORMER
REPRESENTED, IN GENERAL, BY A STOCHASTIC MATRIX AND A
COST FUNCTION. THE INPUTS OF 'ENCODING' ARE THE
PAY-OFF-RELEVANT EVENTS. ACTIONS ARE THE OUTPUT OF
DECODING. ACTIONS AND EVENTS DETERMINE THE PAY-OFF.
THE UTILITY OF THE SERVICES TO THE USER IS A
FUNCTION OF THE PAY-OFF AND OF THE DIFFERENT COSTS.
EFFICIENTLY CHOOSING AN INFORMATION SYSTEM IS BY
DEFINITION CHOOSING AN INFORMATION SYSTEM WHICH
MAXIMIZES THE EXPECTED UTILITY. COMMUNICATION
ENGINEERS RESTRICTED THEMSELVES TO INFORMATION
SYSTEMS WITH FIXED TRANSMITTING (CHANNEL) AND
IDENTICALLY ZERO COST FUNCTIONS. MOREOVER, THEY
EQUATED THE USER'S UTILITY FUNCTION WITH HIS PAY-OFF
FUNCTION. THE PRESENT STUDY IS ALSO RESTRICTED TO
INFORMATION SYSTEMS WITH FIXED TRANSMITTING AND ZERO
COST FUNCTIONS AND USERS' UTILITY FUNCTIONS IDENTICAL
TO THEIR PAY-OFF FUNCTIONS. BUT THE APPROACH IS
MORE EFFICIENT BECAUSE THE PROBLEM IS TREATED OF
CHOOSING ENCODING AND DECODING, GIVEN A SOURCE OF
EVENTS, A PAY-OFF FUNCTION AND A CHANNEL, AS A WHOLE.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 700 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
A MANAGERS GUIDE TO THE ACQUISITION OF DOD SYSTEMS
AND EQUIPMENT. (U)
JAN 69 41P
CONTRACT: SD-271
PROJ: SD-271-87
TASK: 68-13

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
LOGISTICS), HANDBOOKS, FLOW CHARTING,
MANAGEMENT PLANNING, PRODUCTION CONTROL,
OPTIMIZATION, COST EFFECTIVENESS, DECISION
MAKING, BUDGETS (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS (U)

THE GUIDE IDENTIFIES AND PROVIDES SUMMARY
DESCRIPTIONS OF THE KEY ACTIVITIES, DECISION POINTS,
AND RESPONSIBILITIES ESSENTIAL TO EFFECTIVE
ACQUISITION MANAGEMENT. IT IS ORIENTED TOWARD
IDENTIFYING THE MANAGEMENT FUNCTIONS THAT ARE NEEDED
TO SUCCESSFULLY ACCOMPLISH MOST ACQUISITION PROGRAMS.
IT DESCRIBES THE INTERRELATIONSHIPS AMONG SYSTEM
DESIGN, PRODUCTION, AND LOGISTICS SUPPORT THAT MUST
BE ESTABLISHED AND MAINTAINED TO PROVIDE A BASIS FOR
ACQUIRING THE MOST EFFECTIVE SYSTEMS AND EQUIPMENT IN
TERMS OF PERFORMANCE, READINESS, AND COST. IT
EMPHASIZES THE CONDUCT OF TRADE-OFFS AND THE
RECORDING OF ALTERNATIVE APPROACHES AND SUPPORTING
RATIONALE FOR THE SELECTED CONCEPTS AND PLANS. THE
GUIDE IS DESIGNED AS AN EXECUTIVE BRIEF FOR BOTH
GOVERNMENT AND INDUSTRY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 701 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
GUIDELINES FOR MAKING REPAIR EXPENDITURE
DECISIONS. (U)
NOV 68 88P
CONTRACT: SD-271
PROJ: SD-271-80
TASK: 68-6

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
LOGISTICS), HANDBOOKS, MAINTENANCE, DECISION
MAKING, COSTS, TIME, CLASSIFICATION, LIFE
EXPECTANCY, MATHEMATICAL ANALYSIS (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS, OBJECTIVES, ECONOMIC REPAIR
LIMITS (U)

A METHODOLOGY IS DEVELOPED FOR ESTABLISHING REPAIR
EXPENDITURE LIMITS DURING THE NORMAL SERVICE LIFE OF
AN INDIVIDUAL UNIT OF EQUIPMENT. THE METHODOLOGY
ALLOWS FOR THE VARIATION OF REPAIR EXPENDITURE LIMITS
WITH EQUIPMENT USE OR AGE. INCLUDED IS A DECISION
LOGIC NETWORK FOR ITEM MANAGERS IN ESTABLISHING
REPAIR EXPENDITURE LIMITS WITH RESPECT TO A GIVEN
CATEGORY OF EQUIPMENT, AND FOR FIELD REPAIR PERSONNEL
IN APPLYING SUCH LIMITS WHEN AN INDIVIDUAL UNIT OF
EQUIPMENT REQUIRES REPAIR. THE METHODOLOGY
INCLUDES A METHOD OF ESTABLISHING EQUIPMENT LIFE
EXPECTANCY AND ECONOMIC REPAIR LIMITS. PRINCIPAL
FACTORS CONSIDERED ARE STANDARD INVENTORY PRICE OF
EQUIPMENT, SUPPORT COSTS, DISPOSAL VALUE,
OBsolescence AND EQUIPMENT DOWNTIME. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 771 15/3 5/1

RAND CORP SANTA MONICA CALIF

MEASUREMENT OF TECHNICAL PERFORMANCE IN WEAPON
SYSTEM DEVELOPMENT PROGRAMS; A SUBJECTIVE
PROBABILITY APPROACH, (U)

DEC 68 70P TIMSON, S. F. ;

REPT. NO. RM-5207-ARPA

CONTRACT: DAHCl5-67-C-0141, ARPA ORDER-189-1

UNCLASSIFIED REPORT

AVAILABILITY: PAPER COPY AVAILABLE FROM RAND CORP.,
1700 MAIN STREET, SANTA MONICA, CALIF.
90406.

DESCRIPTORS: (*RESEARCH PROGRAM ADMINISTRATION,
WEAPON SYSTEMS), (*WEAPON SYSTEMS, MANAGEMENT
PLANNING), STOCHASTIC PROCESSES, MONTE CARLO
METHOD, SAMPLING, JET PLANES, JET ENGINES,
ELECTRONIC EQUIPMENT, DECISION MAKING,
PERFORMANCE(ENGINEERING),
RELIABILITY(ELECTRONICS), ADVANCED PLANNING,
SYSTEMS ENGINEERING, PERFORMANCE(HUMAN),
LIFE EXPECTANCY (U)

IDENTIFIERS: EVALUATION, *MANAGEMENT INFORMATION
SYSTEMS (U)

THE REPORT DESCRIBES A PROCEDURE FOR MEASURING THE
STATUS AND PROGRESS OF A COMPLEX SYSTEM DEVELOPMENT
PROGRAM. THE PROCEDURE IS BASED ON FOUR PREMISES;
(1) PROGRESS IS CHARACTERIZED BY REDUCTION OF
UNCERTAINTY; HENCE, IF UNCERTAINTY CAN BE MEASURED AT
DIFFERENT TIMES, PROGRESS CAN BE INDICATED BY CHANGES
IN MEASURES OF UNCERTAINTY. (2) ASSESSMENT OF
UNCERTAINTY RELATIVE TO DEVELOPMENT IS SUBJECTIVE.
(3) SUBJECTIVE ESTIMATES OF UNCERTAINTY CAN BE
EXPRESSED IN TERMS OF PROBABILITIES. (4) THE
AMOUNT OF UNCERTAINTY IS INDICATED BY STATISTICAL
MEASURES OF APPROPRIATE PROBABILITY DISTRIBUTIONS.
CONSISTENT WITH THESE PREMISES, THE PROCEDURE FOR
OBTAINING PROBABILITY DISTRIBUTIONS FOR CRITICAL
SYSTEM PERFORMANCE CHARACTERISTICS INVOLVES FIVE
STEPS: (1) OBTAIN DESIGN EQUATIONS. (2)
DETERMINE SUBJECTIVE PROBABILITIES. (3)
GENERATE PROBABILITY DISTRIBUTIONS FOR SYSTEM
PERFORMANCE. (4) CALCULATE STATISTICAL
MEASURES. (5) COMPARE MEASURES AT DIFFERENT
TIMES TO OBTAIN INDICATIONS OF PROGRESS. METHODS
FOR DETERMINING SUBJECTIVE PROBABILITIES SHOULD BE
TESTED IN A REAL-WORLD DEVELOPMENT PROGRAM.
(AUTHOR) (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

GDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 828 1/3 14/1
GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF
RESEARCH STUDY OF AIRFRAME COST FACTORS -
SUPERSONIC TRANSPORT PHASE, (U)
SEP 61 221P SEIDEN, E. I. ; DEMASSA, F.
R. ; HOWLAND, J. A. , JR;
REPT. NO. GDC-EHR-SD-130

UNCLASSIFIED REPORT
PORTIONS OF THIS DOCUMENT ARE ILLEGIBLE. SEE
INTRODUCTION SECTION OF THIS ANNOUNCEMENT JOURNAL FOR CFST;
ORDERING INSTRUCTIONS.

DESCRIPTORS: (*JET TRANSPORT PLANES,
AIRFRAMES), (*SUPERSONIC PLANES, AIRFRAMES),
(*AIRFRAMES, COSTS), CONFIGURATION,
STATISTICAL DATA, STRUCTURAL PARTS, SWEEP-BACK
WINGS, CANARD CONFIGURATION, TAILS(AIRCRAFT),
FUSELAGES, CONTRACTS, MANUFACTURING METHODS,
SCHEDULING, VALUE ENGINEERING, COST
EFFECTIVENESS, MECHANICAL DRAWINGS, SYSTEMS
ENGINEERING, DESIGN, VARIABLE-SWEEP WINGS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
SUPERSONIC TRANSPORTS (U)

THE REPORT CONTAINS STATISTICAL INFORMATION ON THE
ESTIMATED WEIGHT, NUMBER OF FABRICATED PARTS, TYPES
OF PARTS, AND QUANTITIES AND TYPES OF MATERIALS
REQUIRED FOR THE WING, VERTICAL TAIL, CANARD, AND
FUSELAGE OF A PROPOSED TITANIUM, 130 PASSENGER,
MACH 3 SUPERSONIC TRANSPORT. PRELIMINARY
DESIGN DRAWINGS ARE PRESENTED WHICH ILLUSTRATE
TYPICAL DETAIL PARTS AND ASSEMBLY SCHEMES REQUIRED
FOR THIS ADVANCED AIRCRAFT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-681 931 17/7 1976
GENERAL ELECTRIC CO JOHNSON CITY N Y ARMAMENT AND CONTROL
PRODUCTS SECTION
INERTIAL PLATFORM SUBSYSTEM FOR ARMY ARTILLERY
INERTIAL SURVEY SYSTEM. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUN 62 99P SIEGEL, S. H. I
REPT. NO. R62APJ7
CONTRACT: DA-44-009-ENG-4413

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO REPT. NO. R62APJ8,
AD-681 932 AND REPT. NO. R62APJ9, AD-681 933.

DESCRIPTORS: (*ARTILLERY FIRE, *INERTIAL
GUIDANCE), (*STABILIZED PLATFORMS, SYSTEMS
ENGINEERING), ELECTRONIC EQUIPMENT, POWER
SUPPLIES, GYRO STABILIZERS, GIMBALS, SERVO
AMPLIFIERS, MODULES(ELECTRONICS),
PERFORMANCE(ENGINEERING),
RELIABILITY(ELECTRONICS), PACKAGED CIRCUITS,
DIAGRAMS, DESIGN (U)
IDENTIFIERS: AAISS(ARMY ARTILLERY INERTIAL
SURVEY SYSTEMS), *ARMY ARTILLERY INERTIAL
SURVEY SYSTEMS, *MANAGEMENT INFORMATION SYSTEMS (U)

THIS REPORT DESCRIBES THE SUBSYSTEM ANALYSIS,
DESIGN AND TEST OF AN INERTIAL PLATFORM
SUBSYSTEM FOR THE INERTIAL SURVEY SYSTEM.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PVO1

AD-681 932 17/7 19/6

GENERAL ELECTRIC CO JOHNSON CITY N Y ARMAMENT AND CONTROL
PRODUCTS SECTION
STABLE PLATFORM ASSEMBLY FOR ARMY ARTILLERY INERTIAL
SURVEY SYSTEM. (U)

DESCRIPTIVE NOTE: FINAL REPT.,

JUL 62 87P OLSON, E. N. ; POTEATE, W.

B. ; SEMINSKI, R. B. ;

REPT. NO. R62APJ8

CONTRACT: DA-44-009-ENG-4413

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO REPT. NO. R62APJ7,
AD-681 931, AND REPT. NO. R62APJ9, AD-681 933.

DESCRIPTORS: (*ARTILLERY FIRE, *INERTIAL
GUIDANCE), (*STABILIZED PLATFORMS, DESIGN),
GYRO STABILIZERS, THEODOLITES, AZIMUTH,
ALIGNMENT, PURGING, NITROGEN, ASSEMBLING,
PHYSICAL PROPERTIES, RADIO INTERFERENCE (U)
IDENTIFIERS: AAISS (ARMY ARTILLERY INERTIAL
SURVEY SYSTEMS), *ARMY ARTILLERY INERTIAL (U)
SURVEY SYSTEMS, *MANAGEMENT INFORMATION SYSTEMS

THIS REPORT COVERS THE DESIGN AND TEST OF THE
STABLE PLATFORM ASSEMBLY FOR AN INERTIAL (U)
SURVEY SYSTEM. (AUTHOR)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-661 933 17/7 9/5 19/6
GENERAL ELECTRIC CO JOHNSON CITY N Y ARMAMENT AND CONTROL
PRODUCTS SECTION
STABLE PLATFORM ELECTRONICS FOR ARMY ARTILLERY
INERTIAL SURVEY SYSTEM. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
SEP 62 217P GABRIEL, R. R. ; GULA, N. ;
YACYNCH, W. ;
REPT. NO. R62APJ9
CONTRACT: DA-44-009-ENG-4413

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO REPT. NO. R62APJ7,
AD-681 931 AND REPT. NO. R62APJ8, AD-681 932.

DESCRIPTORS: (*ARTILLERY FIRE, *INERTIAL
GUIDANCE), (*STABILIZED PLATFORMS, *ELECTRONIC
EQUIPMENT), MODULES(ELECTRONICS), PULSE
GENERATORS, DIGITAL SYSTEMS, POWER SUPPLIES,
RELAXATION OSCILLATORS, CURRENT AMPLIFIERS,
INTEGRATORS, SERVO AMPLIFIERS, DESIGN,
EMBEDDING SUBSTANCES, ENCAPSULATION,
RELIABILITY(ELECTRONICS) (U)
IDENTIFIERS: AAISS(ARMY ARTILLERY INERTIAL
SURVEY SYSTEMS), *ARMY ARTILLERY INERTIAL
SURVEY SYSTEMS, *MANAGEMENT INFORMATION SYSTEMS (U)

THIS REPORT COVERS THE WORK PERFORMED ON THE
PLATFORM ELECTRONICS PACKAGE FOR THE ARMY
ARTILLERY INERTIAL SURVEY SYSTEM.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-682 190 13/10 9/2
SERENO: PITY INC MCLEAN VA
A TOTAL SHIP SIMULATION MODEL FOR THE DDG-2 CLASS
GUIDED MISSILE DESTROYER, (U)
69 SUP SPENCER, GLENN ;
KOLKOWITZ, HYMAN ; DILKS, RONALD ;
CONTRACT: N00022-67-C-0158

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: LIMITED NUMBER OF COPIES CONTAINING
COLOR OTHER THAN BLACK AND WHITE ARE AVAILABLE UNTIL STOCK
IS EXHAUSTED. REPRODUCTIONS WILL BE MADE IN BLACK AND
WHITE ONLY.

DESCRIPTORS: (*DESTROYERS, MATHEMATICAL
MODELS), PROGRAMMING (COMPUTERS), SHIP
MODELS, FLOW CHARTING, MISSION PROFILES,
OPERATIONAL READINESS, DEPLOYMENT, MANPOWER
STUDIES, MAINTENANCE, DECISION MAKING, PUNCHED
CARDS, SUBROUTINES (U)
IDENTIFIERS: *3M SYSTEM, *MANAGEMENT
INFORMATION SYSTEMS, DDG 2, GUIDED MISSILE
DESTROYERS, COMPUTERIZED SIMULATION (U)

THIS DOCUMENT PRESENTS A SUMMARY OF A ONE YEAR
EFFORT TO DEVELOP A SIMULATION MODEL OF A TOTAL SHIP.
THE MODEL WAS DEVELOPED TO PROVIDE THE NAVY WITH
A MEANS OF PERFORMING PERSONNEL RESEARCH AT THE TOTAL
SYSTEMS LEVEL. TOPICS INCLUDED IN THIS SUMMARY ARE
(1) MODEL DEVELOPMENT, (2) DATA ACQUISITION,
(3) RUNNING THE MODEL, (4) MODEL OUTPUTS AND
(5) APPLICATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-683 318 5/1 9/2
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER WASHINGTON D C
APPLIED MATHEMATICS LAB
AN AUTOMATED PERT/CFM PRODUCTION SCHEDULING
APPLICATION ON THE UNIVAC III. (U)
DESCRIPTIVE NOTE: RESEARCH AND DEVELOPMENT REPT.,
DEC 68 492P CAMARA, ABEL W. ;
PROJ: SR-003-07-01
TASK: 10362
MONITOR: NSRDC 2925

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING,
PROGRAMMING, COMPUTERS)), (*PRODUCTION CONTROL,
SCHEDULING), SHIPYARDS, MANAGEMENT CONTROL
SYSTEMS, INDUSTRIAL PRODUCTION, DIGITAL
COMPUTERS (U)
IDENTIFIERS: PERT, CRITICAL PATH METHOD,
NETWORK ANALYSIS(MANAGEMENT), MANAGEMENT
INFORMATION SYSTEMS, UNIVAC 3 COMPUTERS (U)

THIS REPORT REPRESENTS A COMPLETE DOCUMENTATION OF
THE AUTOMATED PERT/CPM PRODUCTION SCHEDULING
APPLICATION ON THE UNIVAC III. THIS
APPLICATION HAS BEEN DESIGNED TO BE A COMPLETE AND
AUTOMATED, TIME SCHEDULING SYSTEM FOR USE IN A LARGE-
SCALE PRODUCTION ENVIRONMENT SUCH AS THE U.S.
NAVAL SHIPYARDS. THIS SCHEDULING SYSTEM HAS
BEEN DESIGNED TO FUNCTION AS AN INTEGRATED PART OF
THE SHIPYARDS MANAGEMENT INFORMATION SYSTEM.
THIS MANUAL HAS TWO MAJOR PARTS. THE FIRST PART
OF THE MANUAL PRESENTS DETAILED INFORMATION RELATED
TO THE TECHNIQUES AND METHODS UTILIZED WITHIN THE
APPLICATION. THE MANUAL ALSO PROVIDES DETAILED
INFORMATION ON THE COMPUTER ASPECTS OF THE SYSTEM,
INCLUDING THE INDIVIDUAL PROGRAMS. IN ADDITION,
THE MANUAL CONTAINS A COMPLETE SET OF FORMULAE WHICH
HAVE EITHER BEEN UTILIZED BY THE SYSTEM OR DEVELOPED
FOR IT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-683 677 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
AN EXAMINATION OF THE FOUNDATIONS OF INCENTIVE
CONTRACTING. (U)
MAY 68 SIP
CONTRACT: SD-271
TASK: 66-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
LOGISTICS), (*CONTRACTS, *MANAGEMENT
PLANNING), MOTIVATION, COST EFFECTIVENESS,
INDUSTRIAL RESEARCH, PERFORMANCE(ENGINEERING),
SCHEDULING, THEORY, STATISTICAL ANALYSIS (U)
IDENTIFIERS: INCENTIVE CONTRACTING, *MANAGEMENT
INFORMATION SYSTEMS, *LOGISTICS MANAGEMENT (U)

THE REPORT FOCUSES ON THE EFFECT THAT CONTRACTUAL
INCENTIVE ARRANGEMENTS MAY REASONABLY BE EXPECTED TO
HAVE IN REDUCING THE COST, INCREASING THE TIMELINESS,
AND IMPROVING THE PERFORMANCE OF ENGINEERING AND
OPERATIONAL SYSTEMS DEVELOPMENT EFFORTS IN DOD
PROGRAMS. IT DEVELOPS ARGUMENTS, BASED ON FIELD
OBSERVATIONS AND ANALYTIC STUDY, WHICH LEAD TO
RECOMMENDATIONS FOR DOD MANAGEMENT.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-683 678 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
DOD SYSTEMS AND EQUIPMENT PRODUCTION PLANNING
GUIDE.

(U)

FEB 69 170P
CONTRACT: SD-271
TASK: 68-14

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
LOGISTICS); (*MANAGEMENT PLANNING,
PRODUCTION); HANDBOOKS, DECISION MAKING,
PRODUCTION CONTROL, SYSTEMS ENGINEERING, DESIGN,
MANUFACTURING METHODS, TEST METHODS,
INSTALLATION, STANDARDS, COSTS, QUALITY
CONTROL

(U)

IDENTIFIERS: *LOGISTICS MANAGEMENT, *MANAGEMENT
INFORMATION SYSTEMS, CRITERIA

(U)

THE DOCUMENT DESCRIBES TYPICAL PROJECT MANAGEMENT
ACTIVITIES AND KEY DECISION POINTS ESSENTIAL TO
EFFECTIVE PRODUCTION PLANNING FOR THE MANUFACTURE,
TEST, DELIVERY, INSTALLATION, DEMONSTRATION, AND
INDUSTRIAL SUPPORT OF DOD SYSTEMS AND EQUIPMENT.
IT OUTLINES A SYSTEMS APPROACH TO THE PLANNING AND
INTEGRATION OF SYSTEMS AND EQUIPMENT DESIGN,
PRODUCTION, AND LOGISTICS SUPPORT. IT DESCRIBES
TYPICAL RELATIONSHIPS AMONG PROJECT MANAGEMENT AND
SUBORDINATE ELEMENTS THROUGHOUT THE EQUIPMENT LIFE
CYCLE. THE GUIDE IS INTENDED FOR USE BY PRODUCTION
SPECIALISTS AND OTHER INTERFACING PROGRAM PERSONNEL.
IT IS DESIGNED TO ASSIST PRODUCTION MANAGERS IN
DEFINING PLANS, ACTIONS, AND INTERFACES TAILORED TO
SPECIFIC PROGRAMS. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-680 954 5/1 9/2
FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS
ENGINEERING
PROJECT MANAGEMENT USING GPSS/360, (U)
MAY 69 25P HICKS, PHILIP E. ;
JAIN, SURESH K. ;
REPT. NO. THEMIS-UF-TR-19
CONTRACT: DAH04-68-C-0002
PROJ: DA-2-T-014501-B-81-B
MONITOR: AROD T-1:32-RT

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING; *COMPUTER
PROGRAMS), SIMULATION, DIGITAL COMPUTERS,
MATHEMATICAL MODELS (U)

IDENTIFIERS: THEMIS PROJECT, GPSS(GENERAL
PURPOSE SIMULATION SYSTEM), GENERAL PURPOSE
SIMULATION SYSTEM, PROJECT MANAGEMENT, NETWORK
ANALYSIS(MANAGEMENT), MANAGEMENT INFORMATION
SYSTEMS (U)

A NUMBER OF EXAMPLES OF COMPLEX PROCEDURE
RELATIONSHIPS IN PROJECT MANAGEMENT NETWORKING ARE
CONSIDERED EMPLOYING THE GPSS/360 PROGRAM. THE
EXAMPLES ILLUSTRATE THAT GPSS/360 CAN BE EMPLOYED
TO DEVELOP PROJECT MANAGEMENT INFORMATION NOT READILY
ATTAINABLE EMPLOYING STANDARD PROJECT MANAGEMENT
PROGRAMS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-689 400 15/5 9/2
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
OPERATIONS ANALYSIS OFFICE
A PROGRAMMER'S GUIDE TO RGM 1. (U)
DESCRIPTIVE NOTE: OPERATIONS ANALYSIS TECHNICAL MEMO.,
JUN 69 129P WILLIAMS, JAY F. I
REPT. NO. OATH-6

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, MATHEMATICAL MODELS),
(*AIR FORCE EQUIPMENT, COMPUTER PROGRAMS),
LIFE EXPECTANCY, SPARE PARTS, GROUND SUPPORT
EQUIPMENT, MAINTENANCE EQUIPMENT, MANPOWER
STUDIES, MILITARY PERSONNEL, COSTS, PROGRAMMING
LANGUAGES, INSTRUCTION MANUALS, CONTROL SEQUENCES,
SUBROUTINES, PROGRAMMING(COMPUTERS), STOCK
LEVEL CONTROL (U)
IDENTIFIERS: RGM 1 COMPUTER PROGRAM, SIMSCRIPT
1.5 PROGRAMMING LANGUAGE, COMPUTERIZED SIMULATION,
LOGISTICS MANAGEMENT, MANAGEMENT INFORMATION
SYSTEMS (U)

THE RGM 1 IS A COMPUTER MODEL THAT PROVIDES AN
OPTIMUM LOGISTICS SUPPORT POLICY, BASED UPON EXPECTED
LIFE CYCLE COST, FOR NEW OR MODIFIED HARDWARE
SYSTEMS. THE COMPUTER REQUIREMENTS FOR AN RGM 1
EVALUATION ARE ESTABLISHED. THE DATA ARRAYS AND
SUBROUTINES INVOLVED IN THE DECISION PROCESS ARE
INDIVIDUALLY DISCUSSED. PROGRAM VARIATIONS FOR
SPECIFIC PROBLEM SITUATIONS ARE OUTLINED. COMPLETE
SOURCE LANGUAGE LISTINGS OF THE ENTIRE COMPUTER MODEL
ARE PROVIDED IN AN APPENDIX. THE PROGRAMS ARE
PROVIDED IN SIMSCRIPT 1.5, AND A SEPARATE SECTION
BRIEFLY DISCUSSES THE CONVERSION REQUIRED TO RUN
UNDER SIMSCRIPT 1. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-689 419 1977 5/3
THIOXOL CHEMICAL CORP OGDEN UTAH ASTRO-MET DIV
THE ECONOMICS OF SOUNDING ROCKET UTILIZATION. (U)
DESCRIPTIVE NOTE: FINAL REPT. 1 JUN 66-16 MAY 69,
MAY 69 77P SCHAECHTER, WOLFGANG ;
CONTRACT: AF 19(628)-6009
PROJ: AF-7659
TASK: 765904
MONITOR: AFRL 69-0221

UNCLASSIFIED REPORT

DESCRIPTORS: (*SOUNDING ROCKETS, PROCUREMENT),
(*PROCUREMENT, COST EFFECTIVENESS), INVENTORY
ANALYSIS, OPTIMIZATION, ADVANCED PLANNING,
ECONOMICS, DECISION THEORY, PREDICTIONS,
COSTS, MANAGEMENT CONTROL SYSTEMS, MANAGEMENT
PLANNING, CURVE FITTING, LEAST SQUARES METHOD,
RELIABILITY, PROBABILITY, BUDGETS (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS,
FIGURE OF MERIT (U)

ANALYTICAL METHODS, THAT COULD BE USED TO MAKE
SCIENTIFIC SOUNDING ROCKET PROCUREMENT AND
UTILIZATION MORE ECONOMICALLY EFFECTIVE, ARE
DESCRIBED. A FIGURE OF MERIT COMPARATOR, ON
WHICH SOUNDING ROCKET PROCUREMENT AND VEHICLE
DEVELOPMENT DECISIONS CAN BE BASED, IS PROPOSED.
THE COST OPTIMIZATION OF COMBINATIONS OF SOUNDING
ROCKET TYPES FOR A USER AGENCY'S VEHICLE INVENTORY,
SELECTED ON THE BASIS OF THE FIGURE OF MERIT, IS
DEMONSTRATED. IT IS SHOWN THAT OPTIMUM
COMBINATIONS OF VEHICLE TYPES CAN PRODUCE SIGNIFICANT
SAVINGS IN THE OVERALL COSTS OF A SOUNDING ROCKET
INVENTORY. TECHNIQUES FOR PREDICTING MISSION
REQUIREMENTS ARE DISCUSSED, AND ONE OF THESE,
POLYNOMIAL EXTRAPOLATIONS OF ACTUAL UTILIZATION
HISTORIES, IS APPLIED TO HISTORICAL UTILIZATION DATA
FROM AFRL AND NASA/GSFC. MORE SOPHISTICATED
STATISTICAL PREDICTION TECHNIQUES ARE EXAMINED FOR
THEIR APPLICABILITY TO THIS PROBLEM. BAYESIAN
DECISION THEORY IS DISCUSSED IN ITS POTENTIAL
APPLICATION TO INVENTORY OPTIMIZATION. METHOD OF
ESTIMATING THE COST EFFECTIVENESS OF A PROPOSED
SOUNDING ROCKET VEHICLE DEVELOPMENT PROGRAM ARE
EXAMINED. CONSIDERATIONS OF SUCCESS CRITERIA,
PROJECTED MISSION REQUIREMENTS, AND RELIABILITY
GROWTH, ARE INCLUDED IN THE GUIDELINES FOR THE COST
EFFECTIVENESS EVALUATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-689 761 6/4
RAND CORP SANTA MONICA CALIF
SOVIET CYBERNETICS: RECENT NEWS ITEMS, VOLUME 3,
NUMBER 5, 1969. (U)
MAY 69 137P MCDONALD, DOROTHY J
HOLLAND, WADE B. J
REPT. NO. RM-6000/5-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 3, NUMBER 4. AD-
688 820.

DESCRIPTORS: (CYBERNETICS, USSR), REVIEWS,
COMPUTER STORAGE DEVICES, MANAGEMENT ENGINEERING,
INFORMATION RETRIEVAL, DATA STORAGE SYSTEMS,
COMPUTERS, MATHEMATICS, INDUSTRIAL PSYCHOLOGY (U)
IDENTIFIERS: MAGNETIC DISKS, MANAGEMENT
INFORMATION SYSTEMS, ECONOMIC FORECASTING, MEDICAL
FORECASTING, NOVOSIBIRSK (USSR) (U)

THE MAY ISSUE FEATURES AN ARTICLE ON AUTOMATED
MANAGEMENT INFORMATION SYSTEMS IN WHICH IT IS CLEARLY
INDICATED THAT THE SOVIET LABOR FORCE IS FEELING
THE EFFECTS OF AUTOMATION. THREE ARTICLES ON
FORECASTING SHOW THAT PROGNOSTICS IS BEGINNING TO
TAKE HOLD IN THE SOVIET UNION AND THAT IS IS
BEING DEALT WITH BY SOME VERY PRESTIGIOUS SCIENTISTS.
ACADEMICIAN G. MARCHUK'S ARTICLE ON THE
CENTRALIZED MANAGEMENT OF THE COMPUTER INDUSTRY
REFLECTS THE THINKING OF SOVIET LEADERS IN
COMPUTING ABOUT THE USSR'S NEEDS, PARTICULARLY
RELATIVE TO THE IMPORTANCE OF DISC STORAGE UNITS.
HARDWARE DISCUSSED INCLUDES THE RUTA, THE
MASIS, THE M-54, AND SOME EAST GERMAN
MACHINES. OTHER ARTICLES DESCRIBE COMPUTER-
ASSISTED AND COMPUTER-MANAGED INSTRUCTION IN
ELECTRICAL ENGINEERING; AUTOMATION OF A HEAVY MACHINE
PLANT; CONFERENCES ON INDUSTRIAL AND GENERAL
PSYCHOLOGY AND ON MATHEMATICAL METHODS IN GEOLOGY AND
HYDROGEOLOGY; RESEARCH AT SCIENCE CITY AND
KIEV; AND DEVELOPED OF THE STATE NETWORK OF
COMPUTING CENTERS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /8PVO1

AD-690 394 5/1
RAND CORP SANTA MONICA CALIF
THE ESSENTIALS OF A PLANNING-PROGRAMMING-
BUDGETING SYSTEM. (U)
JUL 69 21P DONVITO, P. A. ;
REPT. NO. P-4124

UNCLASSIFIED REPORT

DESCRIPTORS: (•MANAGEMENT PLANNING, DECISION
MAKING), MANAGEMENT CONTROL SYSTEMS, BUDGETS,
OPERATIONS RESEARCH, COSTS, COST EFFECTIVENESS,
DOCUMENTATION, DATA, PREDICTIONS,
MODELS(SIMULATIONS) (U)
IDENTIFIERS: PROJECT MANAGEMENT, OBJECTIVES,
RESOURCE ALLOCATIONS, MANAGEMENT INFORMATION
SYSTEMS (U)

THE PLANNING PROGRAMMING BUDGETING SYSTEM
(PPBS) IS AN INTEGRATED MANAGEMENT SYSTEM THAT
PLACES EMPHASIS ON THE USE OF ANALYSIS FOR PROGRAM
DECISION MAKING. THE PURPOSE OF PPBS IS TO
PROVIDE MANAGEMENT WITH A BETTER ANALYTICAL BASIS FOR
MAKING PROGRAM DECISIONS, AND FOR PUTTING SUCH
DECISIONS INTO OPERATION THROUGH AN INTEGRATION OF
THE PLANNING, PROGRAMMING AND BUDGETING FUNCTIONS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-690 839 5/1 5/2
RAND CORP SANTA MONICA CALIF
A GENERAL SIMULATION MODEL FOR INFORMATION SYSTEMS;
A REPORT ON A MODELLING CONCEPT. (U)
JUL 69 18P BUCHANAN, A. L. ; WAINA, R.
B. ;
REPT. NO. P-4140

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DATA
PROCESSING SYSTEMS), SIMULATION, SYSTEMS
ENGINEERING, DESIGN (U)
IDENTIFIERS: INFORMATION SYSTEMS, *MANAGEMENT
INFORMATION SYSTEMS (U)

THE REPORT IS CONCERNED WITH THE DESIGN OF LARGE-
SCALE MANAGEMENT INFORMATION SYSTEMS (MIS). A
SPECIAL DESIGN METHODOLOGY WAS CREATED, ALONG WITH A
DESIGN MODEL TO COMPLEMENT IT. THE PURPOSE OF THE
PAPER IS TO PRESENT THE MODEL. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-691 099 5/1 5/2
PEAT MARWICK LIVINGSTON AND CO WASHINGTON D C
CRITERIA FOR CENTRALIZED CONTROL OF ARMY-WIDE
MANAGEMENT INFORMATION SYSTEMS. (U)
DESCRIPTIVE NOTE: FINAL REPT.
SEP 68 183P
CONTRACT: DAHC19-67-C-0052

UNCLASSIFIED REPORT

DESCRIPTORS: (•MANAGEMENT ENGINEERING; •ARMY
OPERATIONS); DECISION MAKING, STANDARDS,
MILITARY REQUIREMENTS, DOCUMENTATION (U)
IDENTIFIERS: •MANAGEMENT INFORMATION SYSTEMS (U)

CONTENTS: STUDY RESULTS; MANAGEMENT
INFORMATION SYSTEM STRUCTURE; LIFE-CYCLE
MANAGEMENT; RESOURCE MONITORING; RELATED PROJECT
MANAGEMENT CONCEPTS; MISD ACTIVITIES; MANAGEMENT
CRITERIA; IMPLEMENTATION PLAN. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-691 198 S/1 S/2 9/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
THE PREPARATION OF A BUILDING AND SPACES DATA BANK (U)
AT THE NAVAL POSTGRADUATE SCHOOL.
DESCRIPTIVE NOTE: MASTER'S THESIS,
JUN 69 145P ARNOLD, ROBERT JUDD :

UNCLASSIFIED REPORT

DESCRIPTORS: (*INFORMATION RETRIEVAL, *MANAGEMENT
PLANNING), (*NAVAL PERSONNEL, DECISION
MAKING), NAVAL OPERATIONS, MILITARY FACILITIES,
CONSTRUCTION, MILITARY REQUIREMENTS, COMPUTER
PROGRAMS, THESES (U)
IDENTIFIERS: INFORMATION SYSTEMS, *MANAGEMENT
INFORMATION SYSTEMS, SYSTEMS ANALYSIS (U)

THE DOCUMENT DESCRIBES THE DESIGN AND DEVELOPMENT
OF A BUILDING AND SPACES INFORMATION SYSTEM.
THE SYSTEM WAS DESIGNED TO BE USED BY THE NAVAL
POSTGRADUATE SCHOOL FACILITY RESOURCE MANAGERS AS
A DECISION MAKING AID. SYSTEM ANALYSIS TECHNIQUES
WERE APPLIED TO THE PRESENT FACILITY RESOURCE
DECISION SYSTEM TO DETERMINE ITS STRUCTURE AND
INFORMATION NEEDS. ADDITIONAL PROBLEM ANALYSIS WAS
CONDUCTED TO DETERMINE WHICH OF THE NEEDS COULD BE
INCORPORATED INTO AN INFORMATION SYSTEM. THE
INTERSECTION OF THE FOREGOING NEEDS AND THE
SUBSEQUENT PROBLEM ANALYSIS DETERMINED THE STRUCTURE
OF THE NEW SYSTEM. THE OBJECTIVE OF THE NEW SYSTEM
WAS TO SUPPLY THE MANAGERS WITH A CENTRALIZED SOURCE
OF INFORMATION WITH REGARD TO EXISTING FACILITIES.
A COMPLETE SOFTWARE PACKAGE WAS DESIGNED, TESTED,
AND DOCUMENTED, BUT NOT IMPLEMENTED. AN EXTENSIVE
USERS MANUAL IS PROVIDED TO EXPEDITE IMPLEMENTATION
WHEN IT OCCURS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-691 331 1973 • 5/5
HUMAN ENGINEERING LABS ABERDEEN PROVING GROUND MD
HUMAN FACTORS ENGINEERING DESIGN STANDARD FOR
VEHICLE FIGHTING COMPARTMENTS. (U)
JUN 68 236P
REPT. NO. HEL STANDARD S-2-64A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPERSEDES REPT. NO. HEL STANDARD
S-2-64 DATED MAY 64, AD-601 716.

DESCRIPTORS: (•ARMORED VEHICLES, ARMY
PERSONNEL), (•HUMAN ENGINEERING, STANDARDS),
PERFORMANCE(HUMAN), ANTHROPOMETRY, MAN-
MACHINE SYSTEMS, STRUCTURAL PARTS,
ADAPTATION(PHYSIOLOGY), DISPLAY SYSTEMS,
PERCEPTION(PSYCHOLOGY), LABELS, CONFINED
ENVIRONMENTS, FIRE CONTROL SYSTEM COMPONENTS,
ARMAMENT, DESIGN, MAINTAINABILITY,
OPTIMIZATION, SAFETY (U)
IDENTIFIERS: •ANTHROPOMETRICS, MANAGEMENT
INFORMATION SYSTEMS, •VEHICLE COMPARTMENTS (U)

THIS STANDARD GIVES THE DESIGN ENGINEER BOTH HUMAN
FACTORS ENGINEERING DESIGN PRINCIPLES AND DETAILED
CRITERIA. THE DESIGN PRINCIPLES ARE STATED AS
GENERAL RULES TO BE APPLIED DURING SYSTEM-DEVELOPMENT
PROGRAMS OR AS ESSENTIAL ITEMS THAT MUST BE
CONSIDERED DURING DESIGN TO INSURE THAT SOUND HUMAN
FACTORS ENGINEERING PRACTICES WILL BE INCORPORATED.
THE DETAILED CRITERIA CONSIST OF DIMENSIONS,
RANGES, TOLERANCES, AND OTHER SPECIFIC DATA. IN
SOME CASES, THE RANGE OF ACCEPTABLE DIMENSIONS AND
OTHER FACTORS MAY BE RATHER LARGE. WHERE ONLY THE
MINIMUM AND MAXIMUM ARE GIVEN, DESIGN ENGINEERS MAY
SELECT ANY PART OR ITEM WITHIN THE RECOMMENDED RANGE.
BUT WHERE OPTIMUM DIMENSIONS ARE GIVEN, DESIGNERS
SHOULD AIM TO APPROXIMATE THEM WHENEVER POSSIBLE.
(AUTHOR) (U)

UNCLASSIFIED

DJC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-691 602 5/1 15/5
NAVAL SUPPLY SYSTEMS COMMAND WASHINGTON D C
APPLICATION OF STATISTICAL TECHNIQUES IN THE
PROJECTION OF BUDGETARY REQUIREMENTS. AN EMPIRICAL
APPROACH, (U)
AUG 66 8P GLUBIN, ROSE ;

UNCLASSIFIED REPORT
AVAILABILITY: PUB. IN PROCEEDINGS OF THE BUSINESS
AND ECONOMICS STATISTICS SECTION, AMERICAN
STATISTICAL ASSOCIATION, P441-448 1966.

DESCRIPTORS: (NAVY BUDGETS, MANAGEMENT
PLANNING), (MANAGEMENT PLANNING, REGRESSION
ANALYSIS), FEDERAL BUDGETS, MATHEMATICAL
PREDICTION, CORRELATION TECHNIQUES, MANPOWER
STUDIES, NAVAL EQUIPMENT, NAVAL PROCUREMENT,
ARMED FORCES SUPPLIES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS (U)

THE PURPOSE OF THE PAPER IS TO PRESENT AN EMPIRICAL
APPROACH FOR THE APPLICATION OF RECOGNIZED SIMPLE
STATISTICAL TECHNIQUES IN AN OPERATIONAL SITUATION.
THE SPECIFIC SITUATION TO BE DISCUSSED DEALS WITH
THE APPLICATION OF REGRESSION ANALYSIS IN THE
DETERMINATION OF BUDGETARY REQUIREMENTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-691 834 5/1 9/2

MITRE CORP MCLEAN VA

THE NEW ROLE OF MANAGEMENT INFORMATION
SYSTEMS. (U)

DESCRIPTIVE NOTE: DATA MANAGEMENT SERIES NO. 3,

APR 69 26P GOSDEN, JOHN A. ;

RAICHELSON, EUGENE ;

REPT. NO. MTP-332

CONTRACT: F19628-68-C-0365

PROJ: AF-3348

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO DATA MANAGEMENT SERIES NO.
2, AD-684 707.

DESCRIPTORS: (*MANAGEMENT PLANNING, *DATA
PROCESSING SYSTEMS), PROGRAMMING (COMPUTERS),
REVIEWS (U)

IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
DATA MANAGEMENT (U)

THE REPORT DISCUSSES THE PROBLEMS OF 'FOURTH
GENERATION' INFORMATION SYSTEMS AND TREATS TWO BASIC
PROBLEMS: DIVERSITY OF USERS AND DIVERSITY OF
DATA. THE PAPER CONCLUDES WITH A DESCRIPTION OF
THE CHARACTERISTICS NEEDED IN FUTURE INFORMATION
SYSTEMS. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-691 820 1/5 1/2
RAND CORP SANTA MONICA CALIF
A MODEL OF LONG DELAYS AT BUSY AIRPORTS, (U)
AUG 69 36P CARLIN; ALAN (PARK, NOLLA
EDWARD ;
REPT. NO. P-4126

UNCLASSIFIED REPORT

DESCRIPTORS: (*TERMINAL FLIGHT FACILITIES, AIR
TRAFFIC), (*AIR TRAFFIC, MATHEMATICAL MODELS),
AIRCRAFT LANDINGS, TAKE-OFF, APPROACH, CIVIL
AVIATION, QUEUEING THEORY, REGRESSION ANALYSIS,
PERIODIC VARIATIONS, SCHEDULING, AVIATION SAFETY (U)
IDENTIFIERS: COMPUTER ANALYSIS, COMPUTERIZED
SIMULATION, MANAGEMENT INFORMATION SYSTEMS,
KENNEDY AIRPORT (U)

IN THIS PAPER, A MODEL OF LONG DELAYS AT BUSY
AIRPORTS IS SKETCHED. THE PRIMARY PURPOSE IS TO
PROVIDE A TOOL TO ASSIST IN EVALUATING THE BENEFITS,
IN TERMS OF REDUCED DELAY, OF ANY POLICY TO LIMIT
TRAFFIC. ALONG THE WAY, AN IMPROVED METHOD OF
ESTIMATING DELAY PATTERNS IS OUTLINED, AND TRAFFIC
AND DELAY ESTIMATES FOR KENNEDY ARRIVALS ARE
PRESENTED. AS AN ILLUSTRATION, THE MODEL IS FITTED
FOR KENNEDY ARRIVALS. SECTION I PRESENTS THE
SIMPLE THEORETICAL FORMULATION OF OUR MODEL.
SECTION II DEVELOPS EMPIRICAL ESTIMATES OF
TRAFFIC AND DELAYS THAT ARE NEEDED TO FIT THE MODEL
TO KENNEDY ARRIVALS. IN SECTION III, THE
PROCEDURE USED TO FIT THE MODEL IS OUTLINED. SOME
RESULTS ON DELAY REDUCTIONS TO BE EXPECTED GIVEN
SPECIFIED TRAFFIC REDUCTIONS ARE SUMMARIZED IN
SECTION IV. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVD1

AD-691 902 15/4 5/1 9/2
PENNSYLVANIA UNIV PHILADELPHIA W ARTON SCHOOL OF FINANCE
AND COMMERCE
THE IMPACT OF MODERN INFORMATION TECHNOLOGY ON THE
STRUCTURE OF MILITARY INTELLIGENCE ORGANIZATION AT
THE TACTICAL LEVEL. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
69 105P FITZGERALD, JOHN MORTON . III

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON AN ADVANCED STUDY
PROJECT IN INDUSTRIAL MANAGEMENT.

DESCRIPTORS: (*MANAGEMENT CONTROL SYSTEMS,
*MILITARY INTELLIGENCE), DATA PROCESSING
SYSTEMS, MANAGEMENT PLANNING, SYSTEMS ENGINEERING,
TRANSFER OF TRAINING, MILITARY PERSONNEL,
HISTORY, ARMED FORCES BUDGETS, MILITARY
TRAINING, ADVANCED PLANNING, INFORMATION
RETRIEVAL, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS (U)

THE EXAMINATION OF THE IMPACT OF INFORMATION
SYSTEMS ON THE MILITARY INTELLIGENCE STRUCTURE IS
DIVIDED INTO FOUR PARTS: (1) THE ROLE OF
INTELLIGENCE IS EXAMINED DURING THE EMERGENCE OF
MODERN WARFARE; (2) THE EMERGENCE OF AUTOMATION
IN THE ARMED SERVICES; (3) THE INEVITABLE MEETING
OF A DEMANDING MASTER, MILITARY INTELLIGENCE, AND AN
EQUALLY DEMANDING MISTRESS, AUTOMATED SYSTEMS;
(4) CONCLUSIONS AND SPECIFIC RECOMMENDATIONS FROM
A MORE CONCISE LOOK AT THE PROBLEM IN A PURELY
MILITARY FORMAT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-692 182 13/12 15/2 19/1
NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL
WASHINGTON D C
A STUDY OF TRANSPORTATION OF HAZARDOUS
MATERIALS. (U)
MAY 69 246P
CONTRACT: DOT-OS-A9-106

UNCLASSIFIED REPORT

DESCRIPTORS: (•EXPLOSIVE MATERIALS,
TRANSPORTATION), (•POISONOUS GASES,
TRANSPORTATION), MATERIALS, FLAMMABILITY,
TOXICITY, PACKAGING, IDENTIFICATION, LABELS,
INSTRUCTION MANUALS, MANAGEMENT CONTROL SYSTEMS,
SAFETY, STANDARDS, CLASSIFICATION, SYMPOSIA,
HAZARDS (U)
IDENTIFIERS: HAZARDOUS MATERIALS, MANAGEMENT
INFORMATION SYSTEMS (U)

THIS REPORT CONSTITUTES THE FINDINGS OF A STUDY
UNDERTAKEN MAY 7-9, 1969 FOR THE SPECIFIC PURPOSES
OF APPRAISING EXISTING KNOWLEDGE, PROCEDURES, AND
PRACTICES OF ALL TRANSPORTATION MODES, EXPLORING
IMPROVED OR REVISED CONCEPTS FOR APPROACH TO
REGULATIONS, BASED ON SCIENTIFIC KNOWLEDGE AND
ENGINEERING METHODS, AND SUITED TO THE PRACTICES AND
MATERIALS OF AN INCREASINGLY TECHNOLOGICAL CULTURE;
IDENTIFYING EXISTING AND NEW RESOURCES AND FACILITIES
NEEDED TO SUPPORT MORE TECHNOLOGY-ORIENTED APPROACHES
TO PUBLIC SAFETY REGULATION, AND RECOMMENDING
IMMEDIATE AND LONGER-TERM ACTIONS FOR IMPROVING THE
PRESENT REGULATORY SYSTEM FOR HAZARDOUS MATERIALS
TRANSPORTATION. (AUTHOR) (U)

UNCLASSIFIED

/BPV01

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-692 460 1/3 15/5
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO COST
ANALYSIS DIV
AN AIRCRAFT LOGISTIC SUPPORT COST MODEL. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUN 68 23P BARRY, JOHN L. ;
REPT. NO. MCCC-68-002

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIRCRAFT, LOGISTICS),
(*LOGISTICS, COSTS), AIR FORCE BUDGETS,
AIR FORCE PROCUREMENT, SPARE PARTS, LIFE
EXPECTANCY, COST EFFECTIVENESS, INVENTORY
ANALYSIS, MATERIAL CONTROL, MAINTENANCE,
MATHEMATICAL MODELS, MANAGEMENT CONTROL SYSTEMS,
MANAGEMENT PLANNING (U)
IDENTIFIERS: LOGISTIC SUPPORT, COST MODELS, (U)
MANAGEMENT INFORMATION SYSTEMS

THE MODEL PROVIDES A METHODOLOGY TO DEVELOP
ESTIMATES OF LOGISTIC SUPPORT COST BY YEAR IN THE
SYSTEM LIFE CYCLE BEGINNING WITH THE FIRST YEAR OF
THE ACQUISITION STAGE THROUGH ANY GIVEN YEAR OF
OPERATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-692 461 21/5 15/5
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
DIRECTORATE OF COST ANALYSIS
DEPOT MAINTENANCE COST-ESTIMATED RELATIONSHIPS FOR
TURBINE POWERED AIRCRAFT. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUN 68 54P DURR, JOHN L. ;
REPT. NO. MCCC-68-003

UNCLASSIFIED REPORT

DESCRIPTORS: (*JET ENGINES, MAINTENANCE),
(*LOGISTICS, COSTS), AIR FORCE PROCUREMENT,
SPARE PARTS, PREDICTIONS, ADVANCED PLANNING,
UNCERTAINTY, REGRESSION ANALYSIS, COST
EFFECTIVENESS, MANAGEMENT CONTROL SYSTEMS,
MANAGEMENT PLANNING (U)
IDENTIFIERS: COST ESTIMATING, DEPOT LEVEL
MAINTENANCE, MANAGEMENT INFORMATION SYSTEMS (U)

THIS PAPER REPRESENTS AN EFFORT TO EXTRACT THE
INFORMATION PERTINENT TO PROJECTION OF DEPOT
MAINTENANCE COST ON NEW OR PROPOSED AIRCRAFT FROM THE
AVAILABLE COST HISTORY OF THE AIR FORCE FLEET.
REGRESSION ANALYSIS WAS EMPLOYED TO DEVELOP COST
ESTIMATING RELATIONSHIPS (CER'S) WHICH RELATE
DEPOT MAINTENANCE COST AND AIRCRAFT PHYSICAL/
PERFORMANCE CHARACTERISTICS. THE RESULTING CER'S
ARE INTENDED AS AN AID TO COST ANALYSTS ATTEMPTING TO
ESTIMATE DEPOT MAINTENANCE COST EARLY IN THE
PROCUREMENT CYCLE OF PROPOSED AIRCRAFT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-693 111 5/1 15/7 9/2
IBM FEDERAL SYSTEMS DIV GAITHERSBURG MD
NATIONAL MILITARY COMMAND SYSTEM INFORMATION
PROCESSING SYSTEM 360 FORMATTED FILE SYSTEM (NIPS
360 FFS). USER'S MANUAL. VOLUME IX-A.
ERROR CODES (REVISED). (U)
DESCRIPTIVE NOTE: COMPUTER SYSTEM MANUAL.
JUL 69 177P
CONTRACT: DCA100-67-C-0062
MONITOR: NMCSSC CSM-UM-15-68-VOL-9-A-REV

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ERRATA SHEET INSERTED. SEE ALSO
VOLUME 9, AD-645 490.

DESCRIPTORS: (*ARMY OPERATIONS, DATA PROCESSING
SYSTEMS), MANAGEMENT ENGINEERING, INFORMATION
RETRIEVAL, INPUT-OUTPUT DEVICES, INSTRUCTION
MANUALS, PROGRAMMING (COMPUTERS) (U)
IDENTIFIERS: NATIONAL INFORMATION PROCESSING
SYSTEMS, *MANAGEMENT INFORMATION SYSTEMS (U)

THE VOLUME IS THE NINTH OF NINE VOLUMES AND
PRESENTS THE ERRORS THAT MAY BE ENCOUNTERED BY THE
USER OF THE NIPS 360 FFS SYSTEM. THE
IDENTIFICATION, CAUSES AND USER ACTIONS OF THESE
ERRORS ARE DESCRIBED FOR EACH COMPONENT OF THE
SYSTEM. THIS VOLUME IS REVISION A TO VOLUME
IX, ERROR CODES, AND SUPERCEDES THE INITIAL
VOLUME IN ITS ENTIRETY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-693 112 5/1 15/7 9/2
IBM FEDERAL SYSTEMS DIV GAITHERSBURG MD
NATIONAL MILITARY COMMAND SYSTEM INFORMATION
PROCESSING SYSTEM 360 FORMATTED FILE SYSTEM (NIPS
360 FFS). USER'S MANUAL. VOLUME V-A.
OUTPUT PROCESSOR (OP). (U)
DESCRIPTIVE NOTE: COMPUTER SYSTEMS MANUAL.
JUL 69 137P
CONTRACT: DCA100-67-C-0062
MONITOR: NMCSSC CSM-UM-15-68-VOL-B-REV-A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ERRATA SHEET INSERTED. SEE ALSO
VOLUME 5, AD-842 919.

DESCRIPTORS: (ARMY OPERATIONS, DATA PROCESSING
SYSTEMS), MANAGEMENT ENGINEERING, INFORMATION
RETRIEVAL, INPUT-OUTPUT DEVICES, INSTRUCTION
MANUALS, PROGRAMMING (COMPUTERS) (U)
IDENTIFIERS: NATIONAL INFORMATION PROCESSING
SYSTEMS, MANAGEMENT INFORMATION SYSTEMS (U)

THIS VOLUME IS THE FIFTH OF NINE VOLUMES AND
DEFINES THE OUTPUT PROCESSOR (OP) COMPONENT
OF THE NIPS 360 FFS. IT PRESENTS THE
PROCESSOR'S CAPABILITY, THE TYPE OF OUTPUT PRODUCED,
AND THE METHODS EMPLOYED IN PRODUCING THIS OUTPUT.
IT DESCRIBES THE CONTROL CARDS REQUIRED, A QUICK
REFERENCE SUMMARY OF ALL CARDS, FEATURES WHICH
COMPLEMENT THE OUTPUT PROCESSOR, AND A SUMMARY OF
DIFFERENCES BETWEEN THE NIPS 1410 FFS AND THE
NIPS 360 FFS CONCEPTS OF THE OUTPUT
PROCESSOR. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO;

AD-693 320 22/4 22/2
GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF
ADVANCED ATLAS LAUNCH VEHICLE. ISSUE 2. (U)
APR 67 40P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: LIMITED NUMBER OF COPIES CONTAINING
COLOR OTHER THAN BLACK AND WHITE ARE AVAILABLE UNTIL STOCK
IS EXHAUSTED. REPRODUCTIONS WILL BE MADE IN BLACK AND
WHITE ONLY.

DESCRIPTORS: (*LAUNCH VEHICLES(AEROSPACE),
MISSION PROFILES), CONFIGURATION, ROCKET
MOTORS(LIQUID PROPELLANT), ROCKET MOTORS(SOLID
PROPELLANT), BOOSTER MOTORS, SUSTAINER MOTORS,
VERNIER ROCKET MOTORS, PROPELLANT TANKS,
FAIRINGS, PAYLOAD, THRUST AUGMENTATION,
LAUNCHING SITES, ORBITAL TRAJECTORIES,
INTERPLANETARY TRAJECTORIES, INERTIAL GUIDANCE,
MANAGEMENT PLANNING (U)

IDENTIFIERS: ATLAS LAUNCH VEHICLES, CENTAUR,
SLV-3 LAUNCH VEHICLES, BURNER 2 MOTORS, SPACE
BOOSTERS, MANAGEMENT INFORMATION SYSTEMS (U)

THIS DIGEST IS COMPILED TO AID MISSION PROGRAM
MANAGERS IN DETERMINING THE VEHICLE COMBINATION BEST
SUITED TO SUPPORT EACH OF THEIR ADVANCED OR EXTENDED
MISSION REQUIREMENTS. CHANGES RESULTING FROM
CONTINUING ADVANCEMENTS AT CONVAIR DIVISION ARE
INCLUDED IN THIS ISSUE. SINCE EACH INDIVIDUAL
MISSION HAS DIFFERENT REQUIREMENTS, THE INFORMATION
SUBMITTED IN THIS DIGEST IS INTENTIONALLY
CONSERVATIVE TO ALLOW FOR MISSION PECULIARITIES.
WITH SPECIFIC MISSION DATA, CONSIDERABLY MORE
PAYLOAD CAPABILITY MAY BE REALIZED FROM THESE
COMBINATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-694 347 5/10 9/2
ARMY BEHAVIORAL SCIENCE RESEARCH LAB ARLINGTON VA
HUMAN FACTORS RESEARCH IN COMMAND INFORMATION
PROCESSING SYSTEMS--SUMMARY OF RECENT STUDIES. (U)
DESCRIPTIVE NOTE: TECHNICAL RESEARCH REPT.,
JUL 69 27P RINGEL, SEYMOUR ;BAKER, JAMES
D. ;STRUB, MICHAEL H. ;KENSINGER, LOREN L. ;

REPT. NO. BESRL-TRR-1158
PROJ: DA-2-4-024701-A-723

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMED FORCES OPERATIONS, DATA
PROCESSING SYSTEMS), (*DECISION MAKING, MAN-
MACHINE SYSTEMS), PROGRAMMING (COMPUTERS),
INFORMATION RETRIEVAL, PERFORMANCE (HUMAN),
PERFORMANCE (ENGINEERING), AUTOMATION, HUMAN
ENGINEERING, OFFICER PERSONNEL, REVIEWS, CATHODE
RAY TUBES, TYPEWRITERS, TELETYPE SYSTEMS, DATA
STORAGE SYSTEMS, SIMULATION, PROBLEM SOLVING (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
TACTICAL OPERATIONS SYSTEMS, COMMAND INFORMATION
PROCESSING SYSTEMS, MILITARY COMMANDERS (U)

THE RESEARCH IS DIRECTED TOWARD SOLVING PROBLEMS
ASSOCIATED WITH INFORMATION PROCESSING AND DECISION
MAKING BY COMMANDERS AND THEIR STAFFS. IT FOCUSES
ON ONE OR MORE ASPECTS OF EVENTS WHICH OCCUR FROM THE
TIME A COMMANDER RECEIVES HIS MISSION UNTIL HE
COMPLETES IT. THIS CHAIN OF EVENTS IS THE SYSTEM
WITHIN WHICH COMMAND DECISIONS ARE FORMULATED AND
EXECUTED--A TACTICAL OPERATIONS SYSTEM WITHIN WHICH
TACTICAL INFORMATION PROCESSING IS PERFORMED.
HUMAN INFORMATION PROCESSING AND DECISION MAKING
MAY BE OBSERVED ON AN ABSTRACT LEVEL IN THE
LABORATORY OR AS OPERATIONAL PROCEDURES IN THE FIELD.
TO PROVIDE A RESEARCH CAPABILITY RESPONSIVE TO
REQUIREMENTS FOR VARYING DEGREES OF OPERATIONAL
SIMULATION, THE COMMAND SYSTEMS PROGRAM HAS
ESTABLISHED BOTH LABORATORY AND FIELD APPROACHES.
(AUTHOR) (U)

UNCLASSIFIED

/BPV01

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-694 475 5/9 8/11
NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF NAVY
TRAINING RESEARCH LAB
PERSONNEL IMPLICATIONS OF NEW TECHNOLOGICAL
DEVELOPMENTS: UNDERSEA TECHNOLOGIES. (U)
DESCRIPTIVE NOTE: RESEARCH MEMO.,
JUL 69 52P WILSON, DAVID A. ;
PROJ: PF395210150101
MONITOR: NPRA SRM-70-3

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL RESEARCH, OCEANOLOGY),
(*NAVAL PERSONNEL, UNDERWATER), RESEARCH
PROGRAM ADMINISTRATION, TRAINING, PREDICTIONS,
PERSONNEL MANAGEMENT, UNDERWATER COMMUNICATION
SYSTEMS, UNDERWATER NAVIGATION, DIVING (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS (U)

THE PURPOSE OF THIS EXPLORATORY INVESTIGATION IS TO
DEVELOP AND EMPLOY VALID BASES IN FORECASTING THE
MOST LIKELY EFFECTS OF NEW TECHNOLOGY ON FUTURE
NAVY PERSONNEL AND TRAINING REQUIREMENTS. THIS
PRELIMINARY REPORT PROJECTS LONG-RANGE PERSONNEL
IMPLICATIONS OF ADVANCES IN UNDERSEA TECHNOLOGIES.
THE RESEARCH IS NOT DIRECTED AT DEVELOPING A
PERSONNEL PLAN, BUT AT PROVIDING THE NAVY WITH
INFORMATION UPON WHICH TO BASE LONG-RANGE PERSONNEL
PLANNING. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-694 484 5/2 8/2
AERONAUTICAL CHART AND INFORMATION CENTER ST LOUIS MO
THE POTENTIAL OF SCIENTIFIC AND TECHNICAL DOCUMENT
REFERRAL AND RETRIEVAL TO THE PHOTOGRAMMETRIST. (U)
DESCRIPTIVE NOTE: FINAL REPT. 1966-1967,
JUL 67 18P KNIGHT, GENE D. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE 1967 ST. LOUIS
SEMI-ANNUAL CONVENTION OF THE AMERICAN SOCIETY OF
PHOTOGRAMMETRY AND MID-YEAR CONVENTION OF THE
AMERICAN CONGRESS OF SURVEYING AND MAPPING, ST.
LOUIS, MO., 2-5 OCT 67.

DESCRIPTORS: (*TECHNICAL INFORMATION CENTERS,
*PERIODICALS), (*PHOTOGRAMMETRY, *INFORMATION
RETRIEVAL), RESEARCH PROGRAM ADMINISTRATION,
MANAGEMENT CONTROL SYSTEMS, UNITED STATES
GOVERNMENT, DOCUMENTATION, SUBJECT INDEXING,
DATA PROCESSING SYSTEMS, ABSTRACTS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS (U)

MUCH OF THE KNOWLEDGE OF PHOTOGRAMMETRY WILL BECOME
OBSOLETE IN FIVE YEARS. THIS CAN BE MINIMIZED IF
THE PHOTOGRAMMETRIST IS KEPT AWARE OF NEW CONCEPTS
AND ADVANCES IN SCIENTIFIC AND TECHNICAL FIELDS.
LARGE AMOUNTS OF SCIENTIFIC AND TECHNICAL REPORTS
ARE BEING GENERATED BY AN EXPANDING R&D COMMUNITY.
NEW INFORMATION, RELATED AND APPLICABLE TO
PHOTOGRAMMETRY, IS BECOMING CONTINUALLY AVAILABLE.
THIS CAN AID PHOTOGRAMMETRIC PERSONNEL IN KEEPING
ABREAST OF TECHNOLOGICAL ADVANCES AS WELL AS SOLVING
SPECIFIC PROBLEMS. CONCEPTS OF DOCUMENT REFERRAL
AND RETRIEVAL CAN ASSIST IN SOLVING THE DILEMMA OF
VOLUME, NATURE AND SOURCE OF NEW INFORMATION.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-694 921 S/1 14/1 5/3
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
ON MODELING A PLANNING, PROGRAMMING AND BUDGETING
SYSTEM, (U)
JUL 69 49P JONES, CARL R. I
REPT. NO. NPS-55JS9072A

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING,
*ECONOMICS), (*MANAGEMENT CONTROL SYSTEMS,
MATHEMATICAL MODELS), BUDGETS, COSTS, COST
EFFECTIVENESS, SOCIOLOGY, RESEARCH PROGRAM
ADMINISTRATION, DECISION MAKING,
TRANSFORMATIONS(MATHEMATICS), ADVANCED
PLANNING, OPERATIONS RESEARCH (U)
IDENTIFIERS: PPB(PLANNING PROGRAMMING AND
BUDGETING), PLANNING PROGRAMMING AND BUDGETING,
*MANAGEMENT INFORMATION SYSTEMS, COST
ESTIMATING (U)

A MODEL OF THE PLANNING AND PROGRAMMING ASPECTS OF
A PPB SYSTEM IS FORMULATED. IT INCORPORATES THE
COMPONENT PARTS OF A PPB SYSTEM STRUCTURE AND THE
MULTIPLICITY OF BENEFIT AND COST MEASURES, BOTH
COMMENSURABLE AND INCOMMENSURABLE, SO ASSOCIATED.
DECISION RULES CHARACTERIZING THE CHOICE OF AN
EFFICIENT PROGRAM PACKAGE ARE DERIVED. THESE RULES
INDICATE THE USEFULNESS OF A PROGRAM PACKAGE
NUMERAIRE. THE COMPARATIVE STATICS TECHNIQUE IS
APPLIED AND EFFICIENCY SUBSTITUTION AND BENEFIT
EFFECTS DERIVED. A PROGRAM PACKAGE COST-BENEFIT
FUNCTION IS DEVELOPED. FOR A GIVEN PROGRAM PACKAGE
DECISION, THE EXPANSION-CONTRACTION PATHS ARE ALSO
DERIVED AND CHARACTERIZED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-694 940 5/3 5/9
OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING
WASHINGTON D C OFFICE FOR LAB MANAGEMENT
COMPARISON OF 1968 DOD AND NATIONAL SURVEYS OF
COMPENSATION PAID TO SCIENTISTS AND ENGINEERS. (U)
DESCRIPTIVE NOTE: MANAGEMENT ANALYSIS REPT.,
JUL 69 54P GLASS, E. M. I
REPT. NO. ODDRE-MAR-69-3

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
SCIENTIFIC RESEARCH), (*SCIENTIFIC PERSONNEL,
*WAGES), JOB ANALYSIS, MANPOWER STUDIES,
UNITED STATES, STATISTICAL ANALYSIS,
DISTRIBUTION, CLASSIFICATION (U)
IDENTIFIERS: SCIENTIFIC DEGREE LEVELS, MANAGEMENT
INFORMATION SYSTEMS, *SALARIES (U)

THE STUDY COMPARES THE CHARACTERISTICS AND
COMPENSATION OF DEPARTMENT OF DEFENSE (DOD)
ACTIVITIES IN RESEARCH, DEVELOPMENT, TEST AND
EVALUATION WITH THOSE REPORTED IN THE 1968 NATIONAL
SURVEY OF COMPENSATION CONDUCTED BY THE
COLUMBUS LABORATORIES OF THE BATTELLE
MEMORIAL INSTITUTE (BMI). THE INFORMATION IN
BOTH SURVEYS WAS AS OF 15 SEPTEMBER 1968, AND
ESSENTIALLY THE SAME DATA ELEMENTS WERE USED.
CHARACTERISTICS SUCH AS SALARY PATTERNS, DEGREE
LEVELS, DISCIPLINES, OCCUPATIONS AND MATURITY ARE
COMPARED, TOGETHER WITH THEIR INTERRELATIONSHIPS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-695 427 5/1 14/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A MODEL OF A SYSTEMS ANALYSIS STUDY. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
JUL 69 41P JONES, CARL R. ;
REPT. NO. NPS-55JS/9017A
PROJ: ONR-P0-G090

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, DECISION
THEORY), (*COST EFFECTIVENESS, DECISION
MAKING), MATHEMATICAL MODELS, GOVERNMENT
PROCUREMENT, ECONOMICS, PROBLEM SOLVING, PARTIAL
DIFFERENTIAL EQUATIONS, MATRIX ALGEBRA,
OPTIMIZATION, OPERATIONS RESEARCH, BUDGETS,
CURVE FITTING (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
SYSTEMS ANALYSIS, ALTERNATIVES, BENEFIT COST
ANALYSIS (U)

THE PAPER IS CONCERNED WITH A GOVERNMENTAL
DECISION-MAKER WHO CHOOSES AMONG ALTERNATIVES WHOSE
COSTS AND BENEFITS HAVE BEEN ILLUMINATED
ANALYTICALLY. THE DECISION-MAKER IS CONSIDERED TO
BE INVOLVED IN A PLANNING, PROGRAMMING AND BUDGETING
SYSTEM AND TO BE RESPONSIBLE FOR AT LEAST SOME AREA
WHERE COST-BENEFIT STUDIES CAN BE HELPFUL. THE
DECISION MAKER'S STUDY TEAM IS ENVISAGED AS BEING
GIVEN AN ASSIGNMENT TO DEVELOP THE ALTERNATIVES AND
THEIR COSTS AND BENEFITS. THE OUTPUT OF THE STUDY
TEAM IS SOME REPRESENTATION OF A COST-BENEFIT
SURFACE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-695 690 15/7
OFFICE OF THE CHIEF OF RESEARCH AND DEVELOPMENT (ARMY)
WASHINGTON D C
PROCEEDINGS OF THE UNITED STATES ARMY OPERATIONS
RESEARCH SYMPOSIUM (8TH), ARMY RESEARCH OFFICE,
DURHAM, NORTH CAROLINA, 21-23 MAY 1969. (U)
OCT 69 554P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO REPORT DATED OCT 68, AD-
677 351.

DESCRIPTORS: (*ARMY OPERATIONS, OPERATIONS
RESEARCH), (*OPERATIONS RESEARCH, SYMPOSIA),
DECISION MAKING, MANAGEMENT PLANNING, DATA
PROCESSING SYSTEMS, MILITARY TACTICS, MILITARY
STRATEGY, MILITARY REQUIREMENTS, LOGISTICS,
MANPOWER STUDIES, COSTS, COST EFFECTIVENESS,
MATHEMATICAL MODELS, WEAPON SYSTEMS, MANAGEMENT
CONTROL SYSTEMS, LIMITED WAR (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, (U)
SYSTEMS ANALYSIS

THIS IS A TECHNICAL REPORT CONTAINING PAPERS
PRESENTED AT THE EIGHTH ANNUAL U.S. ARMY
OPERATIONS RESEARCH SYMPOSIUM. THE BASIC
THEME OF THE SYMPOSIUM WAS 'DATA COLLECTION AND
ANALYSIS FOR OPERATIONS RESEARCH.' ORGANIZED
SESSIONS ADDRESSED THE SUBJECTS 'PLANNING FOR
DATA COLLECTION,' 'COLLECTION PROBLEMS,' AND
'DATA ANALYSIS.' (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPVO1

AD-695 767 5/2 9/2
CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES
RESEARCH GROUP
PERSPECTIVES ON INFORMATION PROCESSING IN MANAGEMENT
INFORMATION SYSTEMS. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
AUG 69 32P KRIEBEL, CHARLES H. ;
REPT. NO. RR-171
CONTRACT: NONR-760(24)
PROJ: NR-047-048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE SCANDINAVIAN-
G.S.I.A. JOINT FACULTY SEMINAR,
ASPENASGARDEN, LERUM (SWEDEN), 3-16 AUG 69.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
*MANAGEMENT ENGINEERING), MATHEMATICAL MODELS,
DECISION MAKING, MAN-MACHINE SYSTEMS, NUMERICAL
ANALYSIS, INFORMATION THEORY, COMPUTERS, PROBLEM
SOLVING, SYMPOSIA, MANAGEMENT ENGINEERING (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
COMPUTER MODELS, DIALECTIC PROBLEM SOLVERS,
EVALUATION (U)

THERE IS CONSIDERABLE SPECULATION CONCERNING THE
ROLE, DIRECTION, AND CHARACTERISTICS OF INFORMATION
PROCESSING SYSTEMS IN THE FUTURE. THERE IS A GAP
BETWEEN THE TECHNOLOGICAL STATE OF THE ART IN
COMPUTER-BASED INFORMATION PROCESSING AND TODAY'S
APPLIED PRACTICES IN MANAGEMENT INFORMATION SYSTEMS.
IN THIS ESSAY INFORMATION SYSTEMS IN THE FUTURE ARE
GIVEN A CONSIDERABLY EXPANDED ROLE IN MANAGERIAL
PROBLEM SOLVING PROCESSES, AUGMENTING AND IN SOME
CASES REPLACING THE ANALYTICAL SKILLS WHICH TODAY
RESIDE IN THE DECISION MAKER. SOME IMPLICATIONS OF
THIS ARGUMENT ARE ILLUSTRATED BY A DISCUSSION OF
DPS (DIALECTIC PROBLEM SOLVER), AN INTERACTIVE
MAN-COMPUTER DECISION ANALYSIS MODEL CURRENTLY UNDER
DEVELOPMENT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-695 810 5/1 9/2
MICHIGAN STATE UNIV EAST LANSING DEPT OF MANAGEMENT
AN EMPIRICAL ANALYSIS OF AN AIR FORCE ITEM MANAGER
ROLE AND ITS RELATIONSHIPS WITH AUTOMATED
PROCESSES. (U)

DESCRIPTIVE NOTE: DOCTORAL THESIS,
JUN 69 301P ENZEN, PAUL ERNEST I

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE EQUIPMENT, *MANAGEMENT
ENGINEERING), (*INVENTORY CONTROL,
AUTOMATION), (*SUPERVISORY PERSONNEL,
PERFORMANCE(HUMAN)), AIR FORCE LOGISTICS
COMMAND, QUESTIONNAIRES, DATA PROCESSING
SYSTEMS, RESEARCH PROGRAM ADMINISTRATION, FACTOR
ANALYSIS, ATTITUDES, PROGRAMMING(COMPUTERS),
STATISTICAL PROCESSES, THESES (U)

IDENTIFIERS: *SHOCK MANAGERS, *MANAGEMENT
INFORMATION SYSTEMS, JOB SATISFACTION (U)

THE REPORT IS A DESCRIPTIVE STUDY OF THE AIR
FORCE ECONOMIC ORDER QUANTITY (EOQ) ITEM MANAGER
ROLE AND ITS RELATIONSHIPS WITH THE AUTOMATED SYSTEMS
WHICH PROVIDE INFORMATION FOR THE PERFORMANCE OF
VARIOUS STOCK CONTROL FUNCTIONS. SOME BASIC ROLE
THEORY CONCEPTS WERE USED TO EXAMINE THE ITEM
MANAGER'S ROLE BEHAVIOR AND ATTITUDES RELATING TO THE
AUTOMATED SYSTEMS ENVIRONMENT. A MAIL SURVEY
QUESTIONNAIRE PROVIDED THE PRIMARY DATA FOR ANALYSIS.
THE STUDY WAS DESIGNED TO TEST THE PROPOSITION THAT
ADP SYSTEMS CAN BE A SOURCE OF ROLE CONFLICT AND
AMBIGUITY FOR SOME ITEM MANAGERS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-696 069 5/9 5/2 9/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A PROPOSED STUDENT OFFICER INFORMATION RETRIEVAL
SYSTEM FOR THE NAVAL POSTGRADUATE SCHOOL. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
JUN 69 146P HENRY, ROBERT LEE :
MASSA, LAWRENCE LEE :

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL TRAINING, RECORDS),
(*INFORMATION RETRIEVAL, *OFFICER PERSONNEL),
STUDENTS, COMPUTER LOGIC, DATA PROCESSING
SYSTEMS, DATA STORAGE SYSTEMS, PROBLEM SOLVING,
TEST METHODS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
POSTGRADUATE STUDIES, FILING SYSTEMS, COMPUTER
PRINTOUTS (U)

PERTINENT INFORMATION ON PAST AND PRESENT NAVAL
POSTGRADUATE SCHOOL STUDENTS IS NOW MAINTAINED,
STORED AND PROCESSED IN BULK FILES BY CURRICULUM
OFFICERS. INFORMATION DESIRED FOR MANAGEMENT
STUDIES OR ANALYSIS REQUIRES MANUAL SORTING OF AN
EVER INCREASING NUMBER OF INDIVIDUAL STUDENT RECORDS.
THE PROBLEM COULD BE RESOLVED BY THE IMPLEMENTATION
OF A NARROW SCOPE RETRIEVAL SYSTEM SPECIFICALLY
DESIGNED TO BE RESPONSIVE TO THE CURRICULUM OFFICERS
NEEDS WITH RESPECT TO STUDENT INFORMATION. (U)
(AUTHOR)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-696 571 6/4 9/2
RAND CORP SANTA MONICA CALIF
SOVIET CYBERNETICS REVIEW: VOLUME 3, NUMBER 9,
1969.

(U)

SEP 69 140P HOLLAND, WADE B. I
REPT. NO. RM-6000/9-PR
CONTRACT: F4462U-67-C-0045

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 3, NUMBER 8. AD-
693 121.

DESCRIPTORS: (*COMPUTERS, USSR), (*CYBERNETICS,
REVIEWS), TECHNICAL INFORMATION CENTERS,
PROGRAMMED INSTRUCTION, AUTOMATION, MANAGEMENT
PLANNING, ECONOMICS, MATHEMATICS, MEDICINE,
SYNCHROTRONS
IDENTIFIERS: SCIENTIFIC FORECASTING, MANAGEMENT
INFORMATION SYSTEMS

(U)

(U)

THE ISSUE FEATURES ARTICLES AND PHOTOGRAPHS OF
COMPUTERS DISPLAYED AT THE AUTOMATION-69
EXHIBITION IN MOSCOW, ESPECIALLY THE MIR-1 AND
RUTA-110. ALSO DISCUSSED ARE THE DOZA ANALOG
COMPUTER FOR RADIOLOGICAL DOSAGE; *ON-THE-FLY* OUTPUT
PRINTERS; OTHER WAYS TO INCREASE COMPUTER SPEED AND
PRODUCTIVITY; AND THE PLANNED ULTRA-HIGH-ENERGY 1000-
BEV SYNCHROTRON. TWO ARTICLES GIVE OPPOSITE
APPROACHES TO THE STRUCTURING OF THE STATE
NETWORK OF COMPUTER CENTERS, THOSE OF THE
CENTRAL STATISTICAL ADMINISTRATION AND OF
GOSPLAN. OTHER ARTICLES DISCUSS THE EFFECTS OF
AUTOMATION ON THE WORK FORCE; MATHEMATICAL TRAINING
AND RESEARCH; COMPUTERS IN ECONOMICS; THE LATVIAN
ACADEMY OF SCIENCES RESEARCH; AND THE DELPHI
METHOD OF SCIENTIFIC FORECASTING. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /BPV01

AD-697 570 13/10 8/10 5/3
NATIONAL COUNCIL ON MARINE RESOURCES AND ENGINEERING
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MARINE SCIENCE AFFAIRS - A YEAR OF BROADENED
PARTICIPATION. (U)
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SCIENTIFIC RESEARCH, FEDERAL BUDGETS, FOREIGN
POLICY, POLAR REGIONS, GREAT LAKES, COMMERCE,
MARINE BIOLOGY, SEAFOOD, OCEANOGRAPHIC DATA,
CONTINENTAL SHELVES, WEATHER FORECASTING,
NATIONAL DEFENSE, SHIPPING(MARINE),
CHESAPEAKE BAY, MANPOWER STUDIES, UNDERWATER
VEHICLES, ADVANCED PLANNING (U)

IDENTIFIERS: INFORMATION MANAGEMENT, MANAGEMENT
INFORMATION SYSTEMS (U)

CONTENTS: MARINE SCIENCES AND NATIONAL GOALS;
A PERSPECTIVE FOR MARINE SCIENCE AFFAIRS;
EXPANDING INTERNATIONAL COOPERATION AND
UNDERSTANDING; ENHANCING BENEFITS FROM THE
COASTAL ZONE; STRENGTHENING MILITARY PROGRAMS
FOR NATIONAL SECURITY; ACCELERATING USE OF FOOD
FROM THE SEA; ENCOURAGING DEVELOPMENT OF NON-LIVING
RESOURCES; FACILITATING TRANSPORT AND TRADE;
LAUNCHING AN INTERNATIONAL DECADE OF OCEAN
EXPLORATION; ADVANCING THE SEA GRANT PROGRAM;
FORMULATING ARCTIC POLICIES AND PROGRAMS;
UNDERSTANDING AND SURVEYING THE OCEAN ENVIRONMENT;
INFORMATION MANAGEMENT; RESEARCH, MANPOWER, AND
ENGINEERING; NATIONAL POLICY PLANNING AND
COORDINATION; AND LOOKING AHEAD. (U)

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RAND CORP SANTA MONICA CALIF
AN ANALYSIS OF PHASE-IN INFORMATION FLOWS. (U)
DESCRIPTIVE NOTE: MEMORANDUM REPT.,
SEP 69 46P PAULSON, R. M. ; WAINA, R.
B. ;
REPT. NO. RM-6097-PR
CONTRACT: F44620-67-C-0045

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DESCRIPTORS: (*JET FIGHTERS, *RELIABILITY),
(*DATA PROCESSING SYSTEMS, JET FIGHTERS), JET
BOMBERS, INVENTORY CONTROL, MAINTENANCE,
FAILURE (MECHANICS), SUPPLY DEPOTS, ANALYSIS,
MILITARY REQUIREMENTS (U)
IDENTIFIERS: F-111A AIRCRAFT, F-11 AIRCRAFT,
MANAGEMENT INFORMATION SYSTEMS (U)

DETAILS ARE PRESENTED ON THE DATA RECORDING AND
ANALYSIS SYSTEM USED TO CAPTURE THE RELIABILITY,
FAILURE CHARACTERISTICS OF THE F-111A DURING
CATEGORY III TESTS, AND A COMPARISON OF THE
RESULTS WITH THE DATA NEEDS OF THOSE RESPONSIBLE FOR
PROCUREMENT, PROVISIONING, AND PRODUCT IMPROVEMENT
PROGRAMS. THERE IS NO FORMAL SYSTEM FOR
TRANSMITTING THE TEST RESULTS OR OTHER PHASING-IN
INFORMATION TO THE DECISIONMAKERS, ALTHOUGH AFLCMH
57-3 REQUIRES THOSE WHO PLAN SPARES SUPPORT TO TAKE
TEST, MONS, AND USAGE DATA INTO ACCOUNT. AFLCMH,
THE SUPPORT COMMAND, THE USING COMMAND, AND THE
CONTRACTOR ALL USE THEIR OWN DATA SOURCES WHICH ARE
NOT COORDINATED AND ARE LIKELY TO BE MUTUALLY
INCONSISTENT. EVEN THE SPECIAL EXTENDED K0-43
DATA ANALYSIS SYSTEM FOR THE F-111 FAILS TO RECORD
WHICH PARTS FAILED, OR TO REPORT UNFILLED ORDERS,
THUS MISREPRESENTING DEMAND. (THE KILL INFORMATION
NEEDS ONLY TO BE RETRIEVED FROM THE TRANSACTION
TAPE.) WITH SOLID DATA, LARGE COMMITMENTS COULD
BE DEFERRED UNTIL RESULTS WERE KNOWN. PRODUCT
IMPROVEMENT PROGRAMS WOULD ALSO BE LESS NEEDED AND
LESS COSTLY. LARGE SAVINGS COULD RESULT FROM THE
SYSTEMATIC FLOW OF TEST DATA TO THE DECISION-MAKERS,
IN THE WAY THAT RELIABILITY INFORMATION IS OBTAINED
FROM SOME LEAD-THROUGH-FLEET AIRCRAFT IN MAC.
(AUTHOR)

(U)

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AND DECISION-MAKING, (U)
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KING, DONALD W. ;

UNCLASSIFIED REPORT
AVAILABILITY: PAPER COPY AVAILABLE FROM THE
WASHINGTON OPERATIONS RESEARCH COUNCIL, POTOMAC,
MD. 20854. \$10.00.
SUPPLEMENTARY NOTE: PROCEEDINGS OF OPERATIONS
RESEARCH/TIME-SHARING SYMPOSIUM, NATIONAL BUREAU
OF STANDARDS, GAITHERSBURG, MD., 29-31 OCT 68.

DESCRIPTORS: (*OPERATIONS RESEARCH, *TIME
SHARING), (*MANAGEMENT ENGINEERING, TIME
SHARING), DECISION MAKING, MANAGEMENT PLANNING,
DATA PROCESSING SYSTEMS, SYSTEMS ENGINEERING,
COST EFFECTIVENESS, PROBLEM SOLVING, (U)
MODELS(SIMULATIONS), SYMPOSIA
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, (U)
*COMPUTER AIDED ANALYSIS, ON LINE COMPUTERS

THE THEME OF THE BOOK IS COMPUTER TIME-SHARING
INNOVATION AND OPERATIONS RESEARCH WITH PARTICULAR
EMPHASIS PLACED ON EXPLORING THE ROLE OF TIME-SHARING
TECHNOLOGY AS A TOOL FOR DECISION-MAKING.
PARTICULAR HARDWARE AND SOFTWARE TECHNIQUES ARE NOT
EMPHASIZED, ALTHOUGH CURRENT APPLICATIONS ARE
PRESENTED IN SOME OF THE PAPERS. THE BOOK IS MEANT
FOR MANAGEMENT AND SYSTEMS ANALYSTS WHO WISH TO
INVESTIGATE THE BENEFITS OF TIME-SHARING
CAPABILITIES. (U)

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MARKS, B. G. ; MOULENBELT, R. M. ; VALADEZ, F.
D. ; STANTON, R. E. ;
REPT. NO. RM-5949-PR
CONTRACT: F44620-67-C-0045

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DESCRIPTORS: (*AIR FORCE EQUIPMENT,
MAINTENANCE), (*MAINTENANCE, *MANAGEMENT
CONTROL SYSTEMS), PROGRAMMING (COMPUTERS),
GAME THEORY, SCHEDULING, DECISION MAKING (U)
IDENTIFIERS: VIMCOS COMPUTER PROGRAM, MANAGEMENT
INFORMATION SYSTEMS (U)

A DETAILED DESCRIPTION AND DIRECTIONS FOR USING ALL
THE ROUTINES OF VIMCOS (VEHICLE FOR INVESTIGATION
OF MAINTENANCE CONTROL SYSTEMS), AN ON-LINE,
REAL-TIME GAME SIMULATION MODEL THAT ALLOWS AN
AIRBASE MAINTENANCE CONTROLLER TO SELECT AND SCHEDULE
WORKLOADS. VIMCOS COMPRISES AN AIRCRAFT
MAINTENANCE CONTROL SYSTEM AND AN ENVIRONMENTAL
SIMULATOR; BOTH OPERATE WITHIN THE GENERAL COMPUTER-
SUPPORT SYSTEM COMPOSED OF A SUPERVISOR (WRITTEN IN
ASSEMBLER LANGUAGE), FUNCTIONAL ROUTINES, DISPLAY
ROUTINES, INFORMATION RETRIEVAL ROUTINES AND THE DATA
BASE. TOGETHER THEY ENABLE A CONTROLLER TO
RECEIVE EVENT NOTICES, GET FURTHER INFORMATION, MAKE
SCHEDULING DECISIONS, AND HAVE THE SYSTEM PLAY OUT
THE CONSEQUENCES OF THE DECISIONS. ALTHOUGH
WRITTEN IN PL/I, VIMCOS USES THE ENTITIES-
ATTRIBUTES-SETS FRAMEWORK OF SIMSCRIPT. THE
ENTITIES INCLUDE AIRCRAFT MALFUNCTIONS (UP TO
100), AIRCRAFT (UP TO 25), WORK CENTERS (UP
TO 10), AND RESOURCES. THE BASIC DESIGN CONCEPTS
OF VIMCOS AND ITS OPERATION IN A LABORATORY CONTEXT
ARE DESCRIBED IN AD-698 731. (AUTHOR) (U)

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OCT 69 54P HIXON, ORRIE M. ;
MARKS, BARBARA G. ;
REPT. NO. RM-6036-PR
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DESCRIPTORS: (*AIR FORCE EQUIPMENT,
MAINTENANCE), (*MAINTENANCE, *MANAGEMENT
CONTROL SYSTEMS), PROGRAMMING (COMPUTERS),
MATHEMATICAL MODELS, GAME THEORY, SCHEDULING,
DECISION MAKING (U)
IDENTIFIERS: VIMCOS COMPUTER PROGRAM, MANAGEMENT
INFORMATION SYSTEMS (U)

A DESCRIPTION OF THE BASIC CONCEPT AND OPERATION OF
VIMCOS, AN ON- LINE, REAL-TIME GAME-SIMULATION
MODEL THAT ALLOWS A PLAYER TO FUNCTION AS AN AIR
FORCE BASE MAINTENANCE CONTROLLER TO SELECT AND
SCHEDULE WORKLOADS. PART OF THE LP-IV STUDY,
VIMCOS IS MADE UP OF THE MANAGEMENT CONTROL
INFORMATION SYSTEM SEGMENT OF CAMCOS, PLUS AN
ENVIRONMENTAL SIMULATOR THAT REPRESENTS THE FLOW OF
INFORMATION FROM REMOTE INPUT/OUTPUT TERMINALS IN A
REAL-WORLD COMPUTERIZED MAINTENANCE CONTROL SYSTEM.
THE CONTROLLER AT HIS CONSOLE RECEIVES NOTICES OF
AIRCRAFT LANDINGS, MALFUNCTIONS DISCOVERED, JOB
STARTS AND ENDS, AND FAILURES TO MAINTAIN SCHEDULES.
HE MAY QUERY THE SYSTEM FOR OTHER INFORMATION ON
RESOURCES AND NEEDS; THIS INFORMATION IS DISPLAYED
FOR HIM IMMEDIATELY. THE MODEL IS DECISION-
ORIENTED. THE CONTROLLER MAKES ALL THE DECISIONS
AND THE SYSTEM PLAYS OUT THE RESULTS, KEEPS ALL THE
RECORDS, AND CREATES THE NOTICES AND DISPLAYS.
PROGRAMMING, DETAILS ARE GIVEN IN AD-698 727.
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CORPORATE AUTHOR - MONITORING AGENCY

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